Juzt-Reboot®

Instant System/Data Recovery

User's Manual

Applicable for Versions:

JR-PCIe
JR-PCIe-WOL
JR-PCI-NT
JR-PCI-VT
JR-SW-PRO
JR-SW-VT

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support@juzt-reboot.com

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This User's Manual contains important instructions regarding the installation of **Juzt-Reboot®** System/Data Recovery products. Please read it completely before attempting to install.

DISCLAIMER FOR JUZT-REBOOT® PRODUCTS

To ensure completely trouble free installation as well as efficient post installation operation of Juzt-Reboot®, it is most important that installation instructions as detailed herein be strictly followed. Failure to comply may result in loss or corruption of your data.

Although successfully tested on a wide variety of computer systems, the manufacturer assumes no liability and therefore shall in no event be held liable for any direct or indirect, incidental, collateral, exemplary, punitive, consequential or damages or loss arising from the purchase and/or use of its products including without limitation, loss of use, profits, goodwill or savings or loss of data, data files, or programs that may have been stored by a user on the user's hard drive. By purchasing and using its products, you are agreeing to all these conditions.

WARRANTY – HARDWARE VERSION

The warranty is applicable to Juzt-Reboot® hardware version only which carries a one year limited warranty from the date of purchase against manufacturing defects. During the warranty period, product deemed defective by us in form or function will be repaired or alternatively, at our option, replaced at no charge. This warranty, however, will be rendered void and non-applicable in cases of torn or tampered security sticker, unauthorized repair, accidental damage, abuse, neglect, misuse, alteration, improper installation without following the instructions of the user's manual, decompile, decrypt, reverse engineering ,deliberate and/or attempted modifications of software or any hardware component.

NOTES – SOFTWARE VERSION

1. Customer's use of the Software shall be limited to use on a single hard drive, on a single central processing unit.
2. That the Juzt-Reboot® SW™ Registration Code (Activation Code) is non transferable and is licensed, installed and registered in only one hard drive which cannot be shared or used concurrently on different hard drive. In the event of hard disk failure or change of hard disk, you will be charged for a replacement Registration Code.
3. You agree that we may audit your use of JR SW™ at any time upon reasonable notice.

TRADEMARK NOTICE

Windows is a trademark of Microsoft Corporation. All other product names mentioned are trademarks and service marks of their respective owners.

USER'S MANUAL INFORMATION

The information presented in this User's Manual has been carefully checked for accuracy. However, no responsibility is assumed for any error or omission. Neither is any liability assumed for damages or loses that may result from the use of information contained herein.

Additionally, this User's Manual and all product specifications herein may also be revised from time to time and subject to change without notice.

COMPATIBILITY

Juzt-Reboot® has extensively been tested and successfully used on a wide variety of personal computer systems. However, we do not preclude any possibility of product incompatibility problems arising from the use of Juzt-Reboot® products in relation to certain software and/or hardware.

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Should you encounter any problem, kindly contact us at http://www.juzt-reboot.com or e-mail us directly at support@juzt-reboot.com to notify the problem.

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1. Introduction

Juzt-Reboot® Instant System/Data Recovery can restore your hard disk drive to its original setup in just seconds. Even if your data is destroyed by viruses or accidental deletion, **Juzt-Reboot®** will recover and restore your system instantly.

There are several types of Juzt-Reboot® Solutions:

1. **Juzt-Reboot® Card (Hardware Version)**
   Model: JR-PCI-NT, JR-PCI-VT, JR-PCIe, JR-PCIe-WOL

   They are small PCI or PCI-e x1 interface cards that can be plugged into your Desktop Computer's PCI or PCI Express x1 expansion slot.

2. **Juzt-Reboot® SW™ (Software Version)**
   Model: JR-SW-PRO and JR-SW-VT

   Both are software base solutions that cater for Laptops/Notebooks or Desktops PC that do not have extra free PCI Slot.

2. Operating System Support

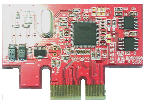
Instant Recovery Mode				
OS / Models	MSDOS, Win 3.x	Win 95, 98, ME	Win NT, 2000, XP, 2003	Win XP64, Vista 32/64, Win 7
JR-PCIe			✓	✓
JR-PCIe-WOL			✓	✓
JR-PCI-VT			✓	✓
JR-PCI-NT	✓	✓	✓	
JR-SW-VT			✓	✓
JR-SW-PRO	✓	✓	✓	

Note:
All operating systems are supported with "**Backup Restoration**" Mode and "**No Restoration**" Mode.
i.e. MS-DOS, Windows 3.x, and Windows 95/98/ME/NT/2000 /XP/2003/Vista/7 operating systems which use FAT16, FAT32 and NTFS file-systems as well as Unix, Xenix, Linux, FreeBSD etc.

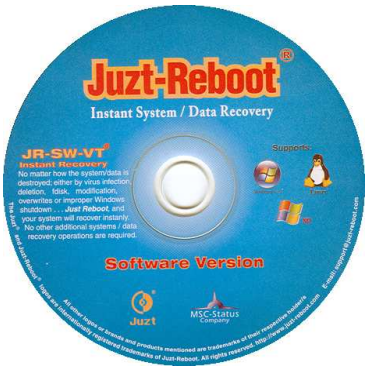
3. System Requirements

▪ IBM PC or compatible ▪ Pentium or higher processor ▪ 64MB RAM	▪ 500MB – 2GB or *4GB** of HDD space require for Buffer Space allocation. ▪ One free PCI or PCI-Express x1 slot for PCI or PCIe Card Model. (Not applicable for SW version). ** 4GB maximum when select Advanced Installation with latest driver for JR-PCI-VT & JR-PCIe, JR-PCIe-WOL.*

4. Juzt-Reboot® Model

A. Hardware Version:	
Sample of a **Juzt-Reboot® PCI** and **PCI-e Card** model	
 JR-PCI-NT **&** **JR-PCI-VT**	 **JR-PCIe** **JR-PCIe-WOL →**

Juzt-Reboot® PCI and PCIe Cards are **Plug & Play** compatible.

B. Software Version:	
Sample of a **Juzt-Reboot® SW™** model	
 Juzt-Reboot® JR-SW-PRO	 **Juzt-Reboot® JR-SW-VT (Vista)**

Note:
(a) Actual PCI & PCIe Card or CD design format may be slightly different for each version from time to time.
(b) Please backup all important data before installing **Juzt-Reboot®**. You may use floppy disks, ZIP disks, CD/DVD-R/RW, USB Flash Drive or a spare Hard Disk for backup.

5. Pre-Installation Procedures

If you intend to retain your Windows 95/98/ME/NT/2000/XP/2003/Vista/Win 7 installation, please perform these tasks before installing **Juzt-Reboot®** to ensure trouble free operation:

Step 1. Immediately upon powering on the computer, enter BIOS/CMOS setup and disable all "**VIRUS PROTECTION**" and/or "**VIRUS WARNING**" and/or "**Protect HDD boot sector write**" settings (usually under "**BIOS FEATURES SETUP**" or "**ADVANCED CMOS SETUP**" for most BIOS types). Save the BIOS/CMOS settings and exit. This prevents **Juzt-Reboot®** from being detected as a virus by the system BIOS.

Note:

(a) To enter BIOS/CMOS setup for most computers press DEL during **POST** (**P**ower **O**n **S**elf **T**est). However, certain computers use a different key press. In this case, refer to the computer's User Manual. For example: Compaq uses F10, Dell uses F2 etc.

(b) For certain BIOS types, the settings described above may be slightly different, under a different category/menu and/or use similar descriptions/label. Please refer to the computer's User Manual.

Step 2. Start Windows 95/98/ME/NT/2000/XP/2003/Vista/7.

Step 3. Click "**Start ⇨ Programs ⇨ Accessories ⇨ System Tools ⇨ Scandisk**" to scan your file system for errors and repair them if found. This is to ensure that the file system which **Juzt-Reboot®** will protect is valid and free of errors.

Note:

To speed up **Scandisk** and **Disk Defragmenter** tasks, it is recommended to close all running programs (including those in the "**System Tray**"), disable all **anti-virus**, "**Active Desktop**", "**Screen Saver**", "**Power Management**", "**Task Scheduler**"; delete "**Temporary Internet Files**", "**TEMP**" files; and empty the "**Recycle bin**". In **Scandisk**, enable "**Automatically fix errors**".

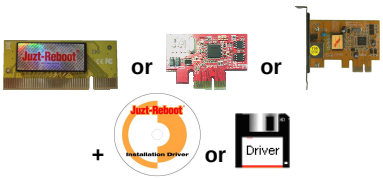
Step 4. Click "**Start ⇨ Programs ⇨ Accessories ⇨ System Tools ⇨ Disk Defragmenter**" to defragment and reorganize your file system more efficiently. This is important because **Juzt-Reboot®** requires a contiguous block of free space to allocate the buffer.

Step 5. Once completed, click "**Start ⇨ Shut Down…**" to power off the computer.
Proceed to "**6. Installing Juzt-Reboot®**".

6. Installing Juzt-Reboot®

Please refer the following guides to find the correct installation procedures:

Flow Chart

HARDWARE Version	SOFTWARE Version
⇩	⇩
Juzt-Reboot® Hardware Model	Juzt-Reboot® Software Model
JR-PCIe / JR-PCIe-WOL JR-PCI-NT / JR-PCI-VT	JR-SW-PRO JR-SW-VT
	
⇩	⇩
Refer 6.1 Installing Juzt-Reboot® Card (Hardware Version)	**Refer 6.2** Installing Juzt-Reboot® SW (Software Version)
⇩	⇩
Refer 7.1 Juzt-Reboot® Card Detection & Install JR Driver (pre-Windows)	**Refer 7.2** Install Juzt-Reboot® JR-SW Driver (pre-Windows)
⇩	⇩
Select Installation Mode	Select Installation Mode
⇙ ⇩ ⇘	⇙ ⇩ ⇘
Express / **Reserve C** / **Advanced**	**Express** / **Reserve C** / **Advanced**
⇩ ⇩ ⇩	⇩ ⇩ ⇩
Refer 8 Express Installation / **Refer 9** Reserve C Installation / **Refer 10** Advanced Installation	**Refer 8** Express Installation / **Refer 9** Reserve C Installation / **Refer 10** Advanced Installation
⇘ ⇩ ⇙	⇘ ⇩ ⇙
Install JR Win Driver (in Windows)	Install JR Win Driver (in Windows)

Quick guides of installing a JR-PCI-VT card with Express Installation mode:
Step 1: Plug in **JR Card** into PCI Slot and allow it to be detected.
Step 2: At the driver request prompt, insert CD and press ENTER or F5 to load CD. Select **Express**, set maximum **Buffer** and install **JR Driver (Pre-Windows).**
Step 3: Once completed, restart and press CTRL+ENTER to login Windows as **Supervisor Mode**. In Window, run the **Install.exe** from the same JR CD to complete the **JR Win Driver**.

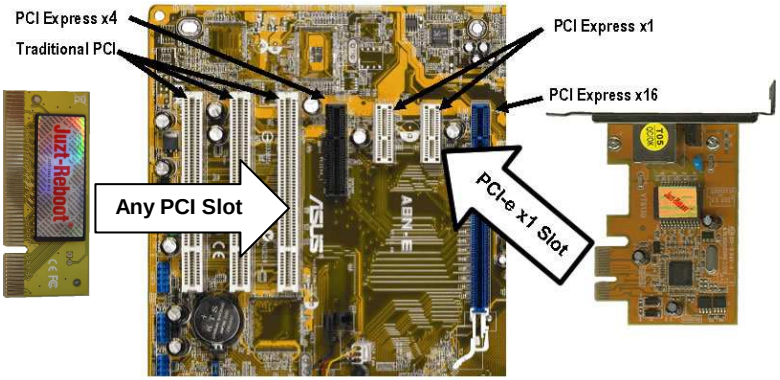
6.1 Installing Juzt-Reboot ® Card (Hardware Version)

*This section is applicable to Model **JR-PCIe, JR-PCIe-WOL, JR-PCI-NT & JR-PCI-VT** card hardware version only (**NOT APPLICABLE** for Model **JR-SW-PRO or JR-SW-VT** software version).*

Step 1. Remove the computer's casing cover to access the motherboard. Please make sure the computer's power is off.

Note: To ensure the computer's power is off and for better safety, pull out the mains power plug.

Step 2. Find a free PCI expansion slot or PCI Express slot. Below is a sample motherboard with a typical PCI and PCI-e expansion slot:



Step 3. For **Juzt-Reboot®** JR-PCI-NT / JR-PCI-VT card, insert into PCI Slot. For JR-PCIe / JR-PCIe-WOL card, please insert into PCI-E x1 slot and make sure it is properly inserted. Improper insertion may damage the card and/or cause computer to hang.

Step 4. Close the computer's casing cover.

Step 5. Power on the computer and proceed to "**7.1 Juzt-Reboot® Card Detection & Install Juzt-Reboot Driver (pre-windows)**".

Note:

(a) If you are not sure and/or not familiar with these tasks, please acquire the services of a qualified computer technician.

(b) Removing the computer's casing cover may void your computer's warranty (i.e. usually a sticker or seal on the casing). Please check before you proceed.

(c) Before attempting to insert the Card, please touch the metal casing to discharge any static electricity that you may have picked up or generated yourself to prevent any damage to the card and/or computer.

6.2 Installing Juzt-Reboot® SW (Software Version)

*This section is applicable to Model **JR-SW-PRO or JR-SW-VT** software version only. (**NOT APPLICABLE** for Model **JR-PCIe, JR-PCIe-WOL, JR-PCI-NT & JR-PCI-VT** card hardware version.*

Step 1. Set BIOS Boot Sequence.

Note:
Juzt-Reboot® SW **Installation Program (Driver)** may arrive with:

- **CD** Format or
- **Diskette** Format

The CD or Diskette Driver is a bootable one, therefore, you need to check or change the BIOS Boot Sequence to allow your system to boot-up the CD or Diskette.

Note:
(a) To enter BIOS/CMOS setup for most computers press DEL during **POST** (**P**ower **O**n **S**elf **T**est). However, certain computers use a different key press. In this case, refer to the computer's User Manual. For example: Compaq uses F10, Dell uses F2 etc.
(b) For certain BIOS types, the settings described above may be slightly different, under a different category/menu and/or use similar descriptions. Please refer to the computer's User Manual.

If the Installation Program/Driver you received is a Floppy Diskette:	If the Installation Program you received is a CD:
• **Set "First Boot Sequence" to "Floppy Drive or A".** • Save & Exit after changes are made.	• **Set "First Boot Sequence" to** • **"CD ROM".** • Save & Exit after changes are made.
Note: Some BIOS have a hotkey (Function key) to bring up a Boot Menu.	

Step 2. After the BIOS Boot Sequence setup is completed, insert the Installation CD or Installation Diskette and re-start computer to boot-up the CD or Diskette. Proceed to **"7.2 Install JR-SW Software Driver"**.

7. Install Juzt-Reboot® Driver

Use the following procedures to install **Juzt-Reboot®** software driver:

- For Hardware Version, Model JR-PCIe, JR-PCIe-WOL, JR-PCI-NT and JR-PCI-VT:
  Please proceed to **"7.1 Juzt-Reboot® Card Detection & Install JR Driver** (pre-Windows)"

- For Software Version, Model JR-SW-PRO and JR-SW-VT:
  Please proceed to **"7.2 Install JR-SW Software Driver** (pre-Windows)"

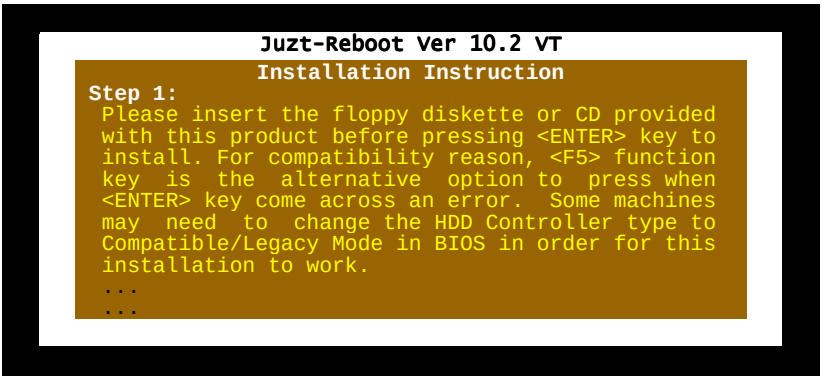
7.1 Juzt-Reboot® Card Detection & Install JR Driver (Pre-Windows)

This section is only applicable for Hardware Version of **Juzt-Reboot® PCI Card**, Model **JR-PCIe, JR-PCIe-WOL, JR-PCI-NT** and **JR-PCI-VT.**

Upon starting the computer, the BIOS will detect the **Juzt-Reboot®** Card. If detected, the first message should appear as below: (If not, refer to FAQ)

Next, **Juzt-Reboot®** First Time Installation screen will appear as below:

OR


Juzt-Reboot Ver 10.2 VT
Installation Instruction
Step 1:
Please insert the floppy diskette or CD provided with this product before pressing <ENTER> key to install. For compatibility reason, <F5> function key is the alternative option to press when <ENTER> key come across an error. Some machines may need to change the HDD Controller type to Compatible/Legacy Mode in BIOS in order for this installation to work.
...
...

Insert **Juzt-Reboot® Driver** CD or Diskette and press [ENTER] or [F5] to continue. **Juzt-Reboot®** will boot-up the CD or Diskette and will launch its Installation Program as seen in next diagram. If does not load, see below:

IMPORTANT TROUBLESHOOTING NOTE: (If unable to boot the CD)

If happen that the Installation Program fails to launch after a few attempts by pressing [ENTER] key, it means the configuration of the HDD Controller in the BIOS is unable to boot the CD ROM. Normally this can be resolved by pressing [F5] as an alternative way to boot-up the CD.

If still unable to boot the CD, please enter BIOS to set CD as First Boot Sequence, return to the prompt, try [ENTER] and/or [F5] key again. Some machines require you to set HDD Controller (SATA Operation Mode/SATA Type). The settings normally are either Enhance/Compatible/Legacy Mode. Normally Legacy mode will solve the problem if Enhance Mode and Compatible Mode is a causal of the problem.

You may also see some BIOS HDD Type with the setting of RAID, AHCI and Native IDE/ATA. Please always park the setting at Native IDE/ATA because Juzt-Reboot may or may not work with AHCI. Juzt-Reboot will NOT support RAID in this environment. For each setting you try, you must try both [ENTER] and [F5] to boot the CD.

Another alternative is to use the Floppy Diskette to install. Drivers can be downloaded from our website or request from us.

You may also request "JRWinInstall" from us to install via Windows.

The "**Install Setup**" screen will appear:

Juzt-Reboot®
Install Setup
Welcome
Welcome to installation setup.
Please select one of the following Install modes to continue. To keep the hard disk data please select [Express] installation mode.
To reserve drive C data only, please select [Reserve C] installation mode.
To create multi-boot partition, please select [Advanced] installation mode. Note: All data on your hard drive will be cleared by Advanced install. Please backup your data on a separate storage device before installation.
Express
Reserve C
Advanced
←/→:Move Enter:Select Esc:Exit

Use [←] [→] cursor keys to select the Install Mode and press [ENTER] to perform installation.

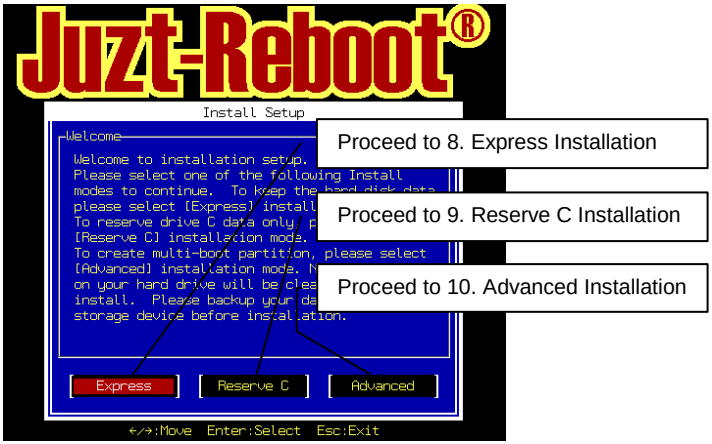
See explanation next:

Three Installation Modes are provided by Juzt-Reboot®.

- **Express:** Express installation is designed for Systems with a single operating system and existing data on it. Express Installation can only be used when a Windows operating system has been pre-installed on the hard drive.
  Proceed to "**8. Express Installation**".
- **Reserve C:** Supports multi-boot functions. Recommended for Advanced users who need multi-protected partitions. By choosing this installation type, except for the first partition (C:), all other data and partitions will be removed and the hard disk will need to be re-partitioned.
  Proceed to "**9. Reserve C Installation**".
- **Advanced:** Supports multi-boot functions. Recommended for Advanced users who need multi-protected partitions. By choosing this installation type, all data and partitions will be removed and the hard disk will need to be reformatted.
  Proceed to "**10. Advanced Installation**".

Warning:

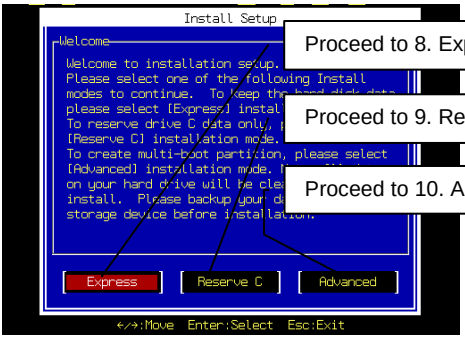
- Selecting **[Express]** will retain all current partitions.
- Selecting **[Reserve C]** will retain only partition **C:**, but **destroy** all other partitions.
- Selecting **[Advanced]** will **destroy** all partitions in the hard disk.
- Only systems with existing MS-DOS or MS Windows OS can be protected by using **Express** installation. Please use **Advanced** for other OS.



7.2 Install JR-SW Software Driver

This section is only applicable to Software Version of **Juzt-Reboot® SW™**, Model **JR-SW-PRO** and **JR-SW-VT**

The "**Install Setup**" screen will appear:



Use ← → cursor keys to select the Install Mode and press ENTER to perform installation. See explanation:

Three Install Modes are provided by Juzt-Reboot®.

- **Express:** Express installation is designed for Systems with a single operating system and existing data on it. Express Installation can only be used when a Windows operating system has been pre-installed on the hard drive.
  Proceed to "**8. Express Installation**".

  Reserve C: Supports multi-boot functions. Recommended for Advanced users who need multi-protected partitions. By choosing this installation type, except for the first partition (C:), all other data and partitions will be removed and the hard disk will need to be re-partitioned.

  Proceed to "**9. Reserve C Installation**".
- **Advanced:** Supports multi-boot functions. Recommended for Advanced users who need multi-protected partitions. By choosing this installation type, all data and partitions will be removed and the hard disk will need to be reformatted.
  Proceed to "**10. Advanced Installation**".

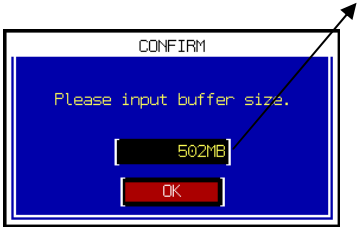
Warning:

- Selecting **[Express]** will retain all current partitions.
- Selecting **[Reserve C]** will retain partition **C:**, but **destroy** all other partitions.
- Selecting **[Advanced]** will **destroy** all partitions in the hard disk.
- Only systems with existing MS-DOS or MS Windows OS can be protected by using **Express** installation. Please use **Advanced** for other OS.

8. Express Installation

For Express installation mode, all partitions will be retained and all **Juzt-Reboot®** configurations are set up automatically.

Step 1. After selecting **[Express]**, you will be prompted to select the buffer size as shown below:



Recommended Buffer Size:

- JR-PCI-NT & JR-SW-PRO Set **1000MB** Maximum.
- JR-PCIe, JR-PCIe-WOL, JR-PCI-VT & JR-SW-VT Set **2048MB** Maximum.

Press ENTER to accept the default size or use the ↑ key to move up and use the SHIFT + PG UP or PG DN keys to change the size and accept after finishing. The size can be set from **50MB** to the maximum size of **1000MB** for JR-PCI-NT & JR-SW-PRO and **2048MB** for JR-PCIe, JR-PCIe-WOL, JR-PCI-VT & JR-SW-VT.

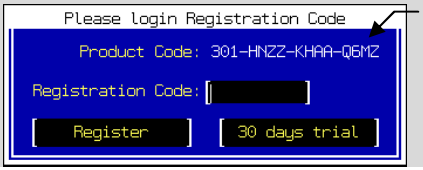
Always set to **MAXIMUM** if you have enough hard disk space.

Step 2. When the message "**Install completed**" appears, remove the **Juzt-Reboot®** Driver Disk or CD and press ENTER to reboot.

Step 3. After rebooting, **Juzt-Reboot® Operating System Menu** will appear. Skip below Note and proceed to next page if you are installing Hardware Version JR-PCIe, JR-PCIe-WOL, JR-PCI-NT and JR-PCI-VT.

Note for Software Version: (Hardware Version skips this note)
For Software Version of **Juzt-Reboot® SW™**, Model **JR-SW-PRO** and **JR-SW-VT:**

After rebooting, a registration message will be displayed. Please input the Registration Code to complete the registration, or use the **[⇆ TAB]** key to tab to **[Trial]** and press ENTER to run in the 30-days trial mode. You can enter the Registration Code later as long as it is within 30-days Trial. This message will disappear once registered.



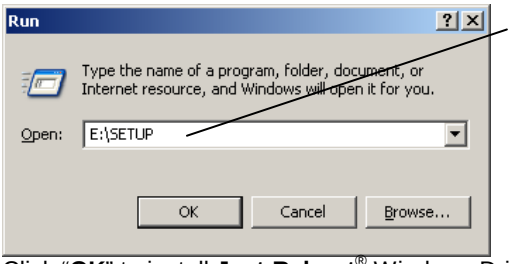
If you have purchased a Software License for JR-SW-PRO & JR-SW-VT Model. Please submit the **Product Code** to us or your local Dealer or Distributor to obtain a **Registration** Code.

Step 3.
Continue…

Step 4. Press CTRL + ENTER to start up Windows in **Supervisor** Mode. When prompted for the Supervisor Password, press the ENTER key (default password after installation is blank) to load Windows.

Step 5. After Windows has started, insert back the **Juzt-Reboot®** Driver Disk or Driver CD.

A. For JR-PCI-NT and JR-SW-PRO:
Click "**Start ⇨ Run...**". In "**Run**" dialog box, type in "**A:\SETUP**" (for Driver Disk) or **"E:\SETUP"** (for Driver CD) as shown below:

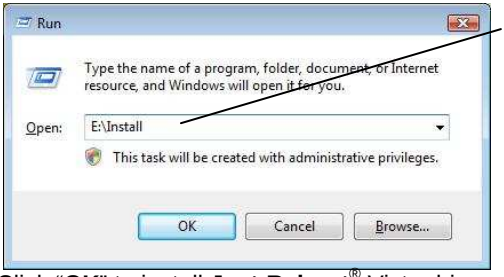


E: Represents the drive letter of the CD-ROM drive.

A: Represents the drive letter of the Floppy Drive.

Click "**OK**" to install **Juzt-Reboot®** Windows Driver. After setup has completed, restart the computer.

B. For JR-PCIe, JR-PCIe-WOL, JR-PCI-VT and JR-SW-VT (Vista):
Click "**Start ⇨ Run...** *or type in Run at the Start Search field*". In "**Run**" dialog box, type in "**A:\INSTALL**" or **"E:\INSTALL"** as shown below:

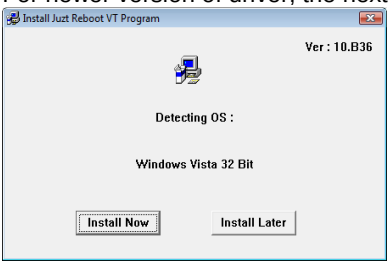

Run
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:
E:\Install
This task will be created with administrative privileges.
OK
Cancel
Browse...

E: Represents the drive letter of the CD-ROM drive.

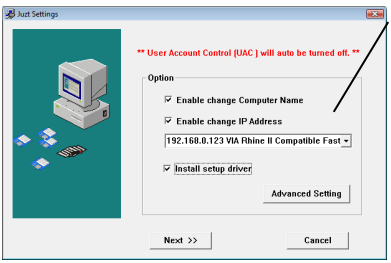
A: Represents the drive letter of the Floppy Drive.

Click "**OK**" to install **Juzt-Reboot**® Vista driver.

For newer version of driver, the next Windows message box would be:

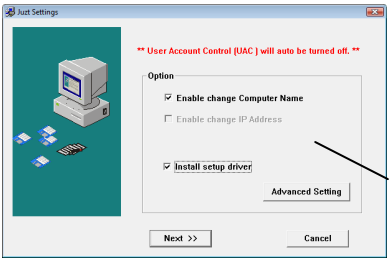


Note:
Juzt-Reboot® will disable "User Account Control (UAC)" to allow installation program run in Administrator mode to avoid any conflicts. IF **Juzt-Reboot**® is not functioning after installation, please uninstall the JR Win Driver and install it in Windows Safe Mode.



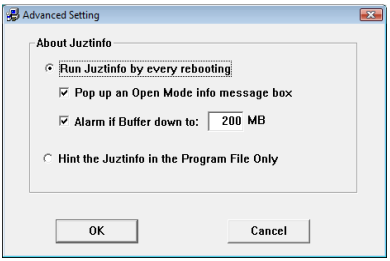
When Fixed IP is detected

Note:
The default setting for "Change Computer Name" and "IP Address" is [Enable]. This setting is prepared in advance for "Net-Clone" function. If DISABLE the check box while installing, the "Auto Allocate Computer Name" and "Auto Allocate IP" for the clients after performing the "Net-Clone" task will not works. If it is with DHCP, the IP and the network are not necessary for "Auto IP Allocation". Only the fixed IP would be available for the "Auto IP" check box. (See Net-Clone 15.3.3 Send Command → IP Allocate).



When Dynamic IP DHCP is detected

After setup has completed, click OK to restart the computer.


Advanced Setting
About Juztinfo
Run Juztinfo by every rebooting
Pop up an Open Mode info message box
Alarm if Buffer down to: 200 MB
Hint the Juztinfo in the Program File Only
OK
Cancel

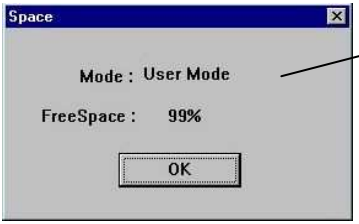
Advanced Setting:
Option to choose where to show Buffer/Shadows space utilization.

Option "Run Juztinfo" by every rebooting will place a JUZT icon to show Buffer Information at the System Tray: i.e.:

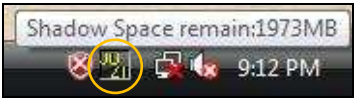
Option "Hint the Juztinfo in the Program File Only" will create a shortcut in the "Start Menu".

Step 6. When **Juzt-Reboot® Start-up** screen appears again, press [F10] to go into **Juzt-Reboot®**'s **Configuration** menu. A login dialog box will appear prompting for Supervisor password. Press [ENTER] for default password. In **Disk Setup** screen, select the OS1 system partition (i.e. Drive C:). Press [[⇆ TAB] key to switch to **Setup Option** and ensure that the "**Restore Type**" is set for "**Every**". If other settings are desired, then set to either "**Manual**", "**Daily**", "**Weekly**", "**Monthly**", etc. When done, press [ESC] to save and exit. The default setting of the "**Restore Type**" by [Express] installation mode is "**Every**". (Refer to "**12.2 Disk Setup**").

Step 7. When **Juzt-Reboot® Start-up** screen appears again, press [ENTER] to Boot-up Windows in **User Mode** (Protection mode). To check **Buffer** Utilization for **JR-PCI-NT and JR-SW-PRO**, Click Start → Programs → Space to launch "**Space**" utility. For **JR-PCIe, JR-PCIe-WOL, JR-PCI-VT and JR-SW-VT**, it is a JUZT icon located at the System Tray.



Protected Mode
for
JR-PCI-NT &
JR-SW-PRO



Protected Mode
for
JR-PCIe, JR-PCIe-WOL,
JR-PCI-VT & JR-SW-VT

Place Mouse Arrow over JUZT Icon

9. Reserve C Installation

For Reserve C installation mode, partition C: will be retained, but all other partitions in the HDD (including logical drives) will be destroyed.

Reserve C installation mode will work only if the hard disk has more than one partition. Other partitions will be destroyed to free up space for the preparation of multi-boot configuration.

Warning!
Choosing this option will delete other partitions except C: Drive. If you have important data in other partitions, please back up before proceed.

For Windows 95/98/ME/NT/2000/XP/2003/Vista/7: This will allocate 500MB buffer and set "**Instant Restoration**" type with "**Every**" schedule for drive "C:".

Step 1. After selecting **[Reserve C]**, the message "**Install completed**" will appear. Remove **Juzt-Reboot® Driver** Disk or CD and press ENTER to reboot.

Note:
For Software Version of **Juzt-Reboot® SW™,** Model **JR-SW-PRO** and **JR-SW-VT,** please follow the step in **[8. Express Installation – Step 3]** regarding the Product Registration.

Step 2. Follow all the steps in **[10. Advanced Installation – Step 2]**.

Step 3. After the completion of all the steps in Step 2, you can start installing operating systems into each new partition (refer to "**10.1 Installing Operating Systems**"). For each OS completed, please follow the steps in **[8. Express Installation – Step 3 to Step 7]** to complete all the necessary installation (i.e. install JR Win Driver).

10. Advanced Installation

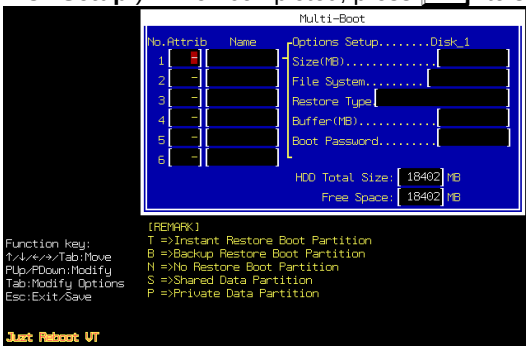
For Advanced installation mode, all partitions in the HDD will be destroyed, and all configurations have to be done manually.

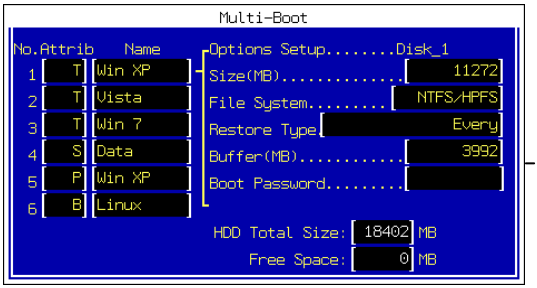
Warning!
Choosing this option will **DELETE** ALL the partitions in your Hard Disk. If you have important data, please back up before proceed.

Step 1. After selecting **[Advanced]**, a warning box will appear prompting for confirmation. By confirming, all partitions and data on your hard drive will be destroyed. Please plan carefully before continuing.

Step 2. After rebooting, **Juzt-Reboot® Multi-Boot** configuration screen will appear. Allocate your other OS partitions by creating partitions and setup "**Attrib**", "**Name**", "**Size(MB)**", "**File System**", "**Restore**

Type", "**Buffer (MB)**" and "**Boot Password**" fields (Refer to "**12.2 Disk Setup**"). When completed, press ESC to save and exit.





(Refer to "**12.2 Disk Setup**").

Step 3. The computer will now reboot. From now on, start installing operating systems into each partition (refer to "**10.1 Installing Operating Systems**").

Note:
When creating partition, please plan properly. Once the partitions have been saved, they cannot be changed anymore. To change or repartition the HDD, you have to reinstall **Juzt-Reboot**® or use **Juzt-Reboot**® "Multi-Boot" functions. Driver Version 10.11 above, Buffer can be set up to 4GB (3992MB). Please be warned that, all partitions created in Advanced Mode are all virtual partitions. If you uninstall Juzt-Reboot, all partitions will be gone. Therefore, if you important data, please backup first before uninstall.

10.1 Installing Operating Systems

For each Instant Restore Boot Partition: You have to boot into **Supervisor mode** (press CTRL + ENTER at **Juzt-Reboot**® **Startup** screen) and boot Windows Install CD to install Windows operating system. Once installation Windows completed, please follow the steps in **[8. Express Installation – Step 3 to Step 7]** to complete all the necessary installation (i.e. to install JR Win Driver for each operating system).

For each Backup Restore Boot Partition: After completing installing an operating system, perform Backup (press CTRL + B at **Juzt-Reboot® Startup** screen) to create a "Backup" copy.

To select partition to boot, please refer to "**12.1. Options**" on "**Force Booting"**.

Note:
All "**Shared**" and "**Private**" Data Partitions created must be formatted first before they can be used.

11. Juzt-Reboot® Startup Screen

Upon booting, the **Juzt-Reboot®** Startup screen will be shown (refer to screen on the following):

Hotkeys available will depend on the partition's restoration type, as described below:

For Instant Restore Boot Partition:

ENTER .....Boot into "**User/Protection**" mode (for normal use)
CTRL + ENTER ...Boot into "**Supervisor/Open**" mode (for maintenance)*
CTRL + B .....Perform "**Backup**" function**
CTRL + R .....Perform "**Restore**" function***
CTRL + K .....Boot OS but "**Keep**" previous changes temporary.

For Backup Restore Boot Partition:

ENTER .....Boot selected OS partition
CTRL + B .....Perform "**Backup**" **
CTRL + R .....Perform "**Restore**" ***

Note:
* Supervisor password is required.
** Backup password is required.
*** Restore password is required.

For No Restore Boot Partition:

ENTER .....Boot selected OS partition
F10 .....Enter **Configuration** menu* (refer to "**12. Configuration**").

11.1 Instant Restoration mode

This mode supports FAT16, FAT32 and NTFS file systems used by DOS and Windows 95/98/ME/NT/2000/XP/2003/Vista/7 operating systems. Juzt-Reboot® provides two operating modes: "**Supervisor**" and "**User**". Below are descriptions of each mode:

(a) **Supervisor Mode (Open Mode/Unprotected Mode)**
All changes made to this partition are retained. Hence, there is no protection available.

(b) **User Mode (Protected Mode)**
Any changes made to this partition are temporary. When performing **Restore** function (press CTRL + R or according to **Restore Interval**), all changes will be discarded. The "**Keep**" (press CTRL + K) function will retain all changes made during the previous session upon rebooting. To retain all changes in **User** mode, use the "**Backup**" function (press CTRL + B).

Note: Before performing a "**Backup**" operation, ensure that you are absolutely sure that the system is clean, that there are no viruses, etc. Once **backup** is done, any settings, viruses, etc are saved permanently as part of the system.

11.2 Backup Restoration mode

This mode supports all operating systems. To use this feature, you must perform **Backup** function first after installing your operating system. You may then use the **Restore** function. You can **Backup** as often as you desire. When performing **Restore**, it will restore the last **Backup** partition image.

For first time installation: Press ENTER to boot the partition and proceed to installing your operating system first. When done, reboot and perform **Backup** function (press CTRL + B) to save the partition image into **Buffer**.

11.3 No Restoration mode

This mode supports all operating systems. As there is no **Buffer** for restoration purposes, all changes made to this partition are retained.

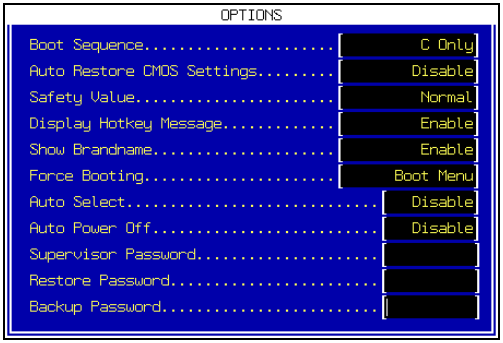
12. Configuration

The **Configuration** menu screen is for changing settings and executing special functions. To enter, press F10 at **Juzt-Reboot® Startup** screen (Supervisor password required). Refer to the diagram:

Use ↑ ↓ cursor keys to select and press ENTER .
For detailed explanation of each option, refer to the following 12.1:

12.1 Options

Setup the following options (refer to the following diagram):



Use ↑ ↓ cursor keys to select. Press ENTER to modify each setting.

For [Password] fields, press ENTER to begin entry. For detailed descriptions of each option, refer to the following:

(a) Boot Sequence:

BIOS	Use BIOS boot sequence.
C only (default)	Boot from hard drive "C:" only. For best protection against booting from other OS and installing over the existing operating system. *Not Applicable for JR-SW.*
A, C	Boot from floppy drive A: and if there is no bootable diskette, then boot from hard drive "C:"

(b) Auto Restore CMOS Data:

Disable (default)	Does not restore CMOS settings when CMOS settings are modified.
Enable	Automatically restores CMOS settings (with a saved copy) when CMOS settings are modified.

(c) Safety Value:

Normal (default)	Normal security level
Advanced	Enhanced security level, for protection against "Low Level Format". Note that this results in more stringent checking of disk access and will slow down the PC.

(d) Display Hotkey Message:

Disable	Do not display any "hotkeys" in **Juzt-Reboot® Startup** screen
Enable (default)	Display all "hotkeys" in **Juzt-Reboot® Startup** screen.

(e) Show Brandname:

Disable	Do not display "**Juzt-Reboot**" logo in **Juzt-Reboot® Startup** screen.
Enable (default)	Display "**Juzt-Reboot**" logo in **Juzt-Reboot® Startup** screen.

(f) Force Booting:
Select a system partition to boot. The **Names** of all bootable partitions will be available when pressing PG UP or PG DN. However, if you have selected **[Boot Menu]** option, then a multi-boot menu will appear for you to select a partition to boot.

(g) Auto select:
Automatically boots the selected partition after a predefined number of seconds. Minimum is **2** seconds (default) and maximum is **99** seconds. However, if you have selected **[Disable]** option, then **Juzt-Reboot®** will wait for the user to select a partition to boot.

(h) Auto power off:
Automatically power off the computer after a predefined of minutes. Minimum is **1** minute and maximum is **99** minutes. However, if you have selected **[Disable]** option (default), then **Juzt-Reboot®** will not power off the computer. This function works only with ATX power supply. *However, some latest BIOS may not support this function too*.

(i) Supervisor Password:
Password for entering **[F10 Configuration]** menu or booting into "CTRL + ENTER **Supervisor**" mode at **Juzt-Reboot® Startup screen**.

(j) Restore Password:
Password for manual "CTRL + R **Restore**" function at **Juzt-Reboot® Startup screen.**

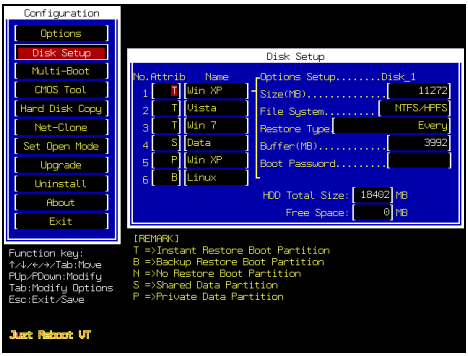
(k) Backup Password:
Password for manual "CTRL + B **Backup**" function **Juzt-Reboot® Startup screen.**

The maximum length of all passwords is 10 characters.

Important Note:
(a) Before enabling "**Auto Restore CMOS Settings**", you **MUST** execute **CMOS Tool** first to analyze and save the current CMOS settings.
(b) Setting "**Safety Value**" to "**Advanced**" may lower hardware compatibility and slow down your computer as it scrutinizes all HDD access.
(c) For better security, set the "**Boot sequence**" to "**C only**" to prevent booting from diskette or CD-ROM. This setting overrides the BIOS boot sequence.

12.2 Disk Setup

Juzt-Reboot® Disk Setup is used to easily create and manage partitions. All partitions created are regarded as physical disks which enable various operating systems to be installed in a single hard drive.



Use the ↑ ↓ cursor keys to select each field. Press ⇆ to switch between the partition's "**Attrib/Name**" table and **Options Setup** table. Press PG UP PG DN to change the values or settings. For partition "**Name**" and "**Boot Password**" fields, press ENTER first to begin entry. For detailed descriptions of each field, refer to the following:

(a) **Attrib**

[T] Instant Restoration Boot Partition

The partition will be restored to its original setup manually or automatically according to the "**Restore Type**". Restoration will be "**instant**" as all changes made are discarded. For example: if set to "**Every**", restoration will take place on every reboot, and if set to "**Manual**" all changes are kept (in the **Buffer**) until you restore manually. Allocate the desired **Buffer** size accordingly. Maximum is 1000MB for JR-PCI-NT & JR-SW-PRO and 2048MB (or 3992MB under Advanced Install) for JR-PCIe, JR-PCIe-WOL, JR-PCI-VT & JW-SW-VT. Recommend to allocate maximum buffer size. Supports FAT16, FAT32 and NTFS, thus applies to DOS, Windows 3.x, Windows 95 /98 /ME /NT /2000 /XP /2003 /Vista/7.

[B] Backup Restoration Boot Partition

The partition will be restored to its original setup manually or automatically according to the "**Restore Type**". Before restoration can be done, you have to create a "backup" copy into the **Buffer**. Backup and restoration will take time, depending on the size of the partition. Thus, it is recommended to set the "**Restore Type**" to "**Manual**". The **Buffer** size allocated will be the same as the partition size. Supports all Operating Systems.

[N] No Restoration Boot Partition

No restoration for the selected partition. Thus backup and restore functions are unavailable. Therefore, no **buffer** will be allocated. All changes made will remain. Supports all Operating Systems.

[S] Shared Data Partition

For this partition type, the partition will be visible to all partitions. Useful for sharing data between different operating systems. For **FAT16** and **FAT32** file system, this data partition can also be manually or automatically cleared ("**Auto Clr.**") according to the "**Restore Type**".

[P] Private Data Partition
For this partition type, the partition will only be visible to the boot partition with the same "**Name**" setup. It will not be visible to other partitions. Useful for data that is exclusive to a particular operating system. For **FAT16** and **FAT32** filesystem, this data partition can also be manually or automatically cleared ("**Auto Clr.**") according to the "**Restore Type**". For **NTFS**, setting the "**Restore Type**" to **[with System]**, will protect this partition and the restore will follow the OS with the same "**Name**" or "**Label**".

(b) **Name**
Name of System/Data partition. Maximum length is 10 characters. You may enter "Windows NT", "Win 2000, "Win XP", "Win Vista", "Win 7", "Linux", etc. according to your preferences.

(c) **Size (MB)**
Size of the partition in MB. You can adjust this value. When adjusting partition size, the remaining available **Free Space** amount will also be adjusted.

(d) **File System**
The following table is a guide for file systems and operating systems support available:

FAT16	MS-DOS, Windows 3.x, Windows 95/98/ME Windows NT/2000/XP/2003
FAT32	Windows 95/98/ME, Windows 2000/XP/2003
NTFS/HPFS	Windows NT/2000/XP/2003/Vista/Win 7
OS/2 Boot	IBM OS/2
Linux/M	Linux
Linux/SW	Linux (Swap)
Linux	Linux
FreeBSD	FreeBSD
Extend	Extended MS-DOS partitions

Note:
(a) **FAT16** supports partitions under 8.4GB, however the maximum size for a **FAT16** partition is 2.1GB.
(b) Windows NT 4.0 and Linux boot/system partition cannot be placed beyond 2.1GB.
(c) **Extend** partition is the same as DOS Extended partition. You can use FDISK to perform further partitioning.
(d) Linux and FreeBSD are Unix/BSD-based operating systems. Thus can be applied to similar operating systems such as Unix SVR4, Xenix, MINIX, Solaris, NetBSD, BSD/OS, etc.

(e) **Restore Type**

Restoration schedule for **Instant** and **Backup Restoration** partitions. Also valid for **Share** and **Private** data partitions, but functions as "**Auto clear**" schedule. Options available are:

Disable	Disables restore functions
Every	Restores automatically on every reboot
Daily	Restores automatically at first boot of each day
Manual	Restoration can only be done manually
Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	Restores automatically at first boot of the specified day of the week
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, ~ 31st	Restores automatically at first boot of the specified date of month.

(f) **Buffer**

Buffer size for restoration. For **Instant Restoration** type, the default size is 500MB and can be increased up to a maximum of 1000MB for JR-PCI-NT Card & JR-SW-PRO and 2048MB (or 3992MB under Advanced installation) for JR-PCIe, JR-PCIe-WOL, JR-PCI-VT Card & JR-SW-VT. For **Backup Restoration** type, the buffer size will be the same as the partition.

(g) **Boot Password**

Password for the selected partition. In **Juzt-Reboot® Startup** screen, you will be prompted for this password when trying to boot. To remove the password, just clear the password entry (empty). Maximum length is 10 characters.

Note:

(a) When creating or modifying partitions, please plan properly. This is because once the partitions have been saved, they cannot be changed anymore.

(b) When creating a new partition or increasing the buffer size, you must have some free HDD space. If there is no free HDD space available, then retrieve some free space from one of the other partitions.

(c) New boot or data partitions created have to be **FORMATTED** before they can be used.

(d) If the operating system is DOS, Windows 3.x, or Windows 95/98/ME or Windows NT/2000/XP/2003/Vista/7, it is recommended to use "**Instant Restore Boot Partition**".

(e) For "**Backup Restore Boot Partition**", you have to "**Backup**" the HDD partition manually before you can use the "**Restore**" function.

(f) It is not recommended to set "**Restore Type**" to "**Every**" for "**Backup Restore Boot Partition**" because every time the computer reboots, it will take time for the restore process to complete.

(g) **Juzt-Reboot®** supports only the primary HDD. Other HDDs (primary slave, secondary, etc) will not be protected.

(h) **Juzt-Reboot®** supports up to 42 virtual partitions in one HDD under Advanced Mode Installation.
(i) **Juzt-Reboot®** supports up to 4 primary partitions in one HDD under Express Mode Installation.

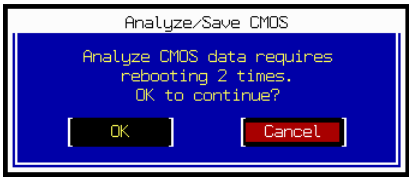
12.3 Multi-Boot

Destroys all partitions in the HDD for repartitioning and creating "multi-boot" system partitions (virtual partitions) for different operating systems. Refer to the diagram below:

If you select **[OK]** then all partitions and data in the HDD will be **destroyed**. Please think carefully and plan properly before using this function.

12.4 CMOS Tool

Analyzes current CMOS data and makes a comparison with a saved copy (in the hard drive) for differences. If you select **[OK]**, the computer will restart twice.



Execute this function only when some settings have been modified or peripherals have been changed or replaced. If any CMOS settings are changed, **Juzt-Reboot® Card** will remind you to restore or backup when rebooting, even if you did not execute this function manually.

12.5 Hard Disk Copy

You can use this function to clone/duplicate hard disk using IDE cables. Up to three hard disks can be copied simultaneously:

Hard Disk Copy
No. CYLS Head Sector Size(MB) State
1 519 63 63 1024 Source
2 0 0 0 0 No HDD Found
3 0 0 0 0 No HDD Found
4 0 0 0 0 No HDD Found
5 0 0 0 0 No HDD Found
6 0 0 0 0 No HDD Found
7 0 0 0 0 No HDD Found
8 0 0 0 0 No HDD Found
Copy Select:
Parameter & All Partitions (Default)
Parameter
Partition
Partition Select
Copy

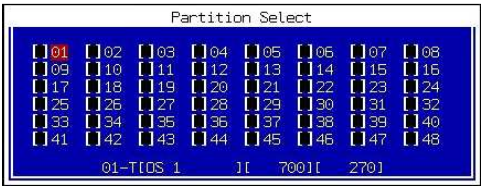
Use ↑ ↓ cursor keys to select and press ENTER to execute. For "[ ]" check box, press SPACE or ENTER to enable/disable the option. When ready, select **[Copy]** and press ENTER to start copying, otherwise press ESC to return to the Configuration menu.

The following describes each option:

(a) **Parameter & All Partitions (Default)**
Copies the entire hard disk (all partitions and parameter data).

(b) **Parameter**
Enable this check box to copy the parameter of the selected partition. You have to also execute **[Partition Select]** to select one or more partitions (see below).

(c) **Partition**
Enable this check box to copy the selected partition and parameters. You have to also execute the **[Partition Select]** option to select one or more partitions (see below).



Partition select screen:

Select a partition or multiple partitions to copy.

12.6 Net-Clone

The **Net-Clone** feature allows you to copy **Juzt-Reboot®** parameters and HDD partitions to other computers through the LAN.

Note:
To use **Net-Clone** on computers with network cards not on the list of supported LAN cards, boot to DOS & run packet drivers before running DOS versions of Net-Clone utility.

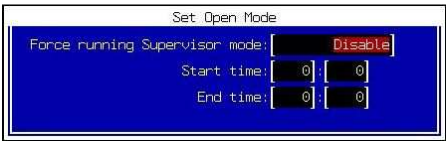
Use ↑ ↓ cursor keys to select "**Run Net-Clone**" and press ENTER to execute function. Press ESC to exit and return to **Juzt-Reboot® Configuration** screen.

Refer "**15. Using Net-Clone**" for more details.

12.7 Set Open Mode

Provides a method to automatically switch the **Juzt-Reboot®** card into Supervisor Mode during the specified interval. When the specified interval has expired, it will automatically switch back to the original mode. That is, if it was started up in User Mode, then it will revert to User Mode when the end time has been passed. Please request JRTime utility from us.

This is most useful for corporations or organizations that automatically push updates of their database, software, or antivirus definition updates to the PCs, especially at times after office hours.



Set Open Mode: Schedule "**Force running Supervisor Mode**" to **[Daily /Weekly /Monthly]**, and set the "**Start time**" and "**End time**", where the "**End time**" must come after the "**Start time**".

12.8 Upgrade

Upgrade **Juzt-Reboot®**'s software driver. A dialog box with the message "**Please insert the disk for upgrade**" will appear. Insert new **Juzt-Reboot® Driver** Disk or CD and select **[OK]** to upgrade, otherwise select **[Cancel]** to abort. After the upgrade has been loaded, the computer will reboot.

For Windows 95/98/ME/NT/2000/XP/2003/Vista/7: After the computer reboots, enter "**Supervisor mode**" and execute the **SETUP** file or **INSTALL** file from the new **Juzt-Reboot® Driver Disk or CD**. This will install the new **Juzt-Reboot®** Win driver.

Note:
It is recommended to uninstall or remove the previous **Juzt-Reboot®** Win driver by running "**UN_SETUP**" from the old **Juzt-Reboot® Driver** first. The latest version of the Driver Disk or CD does not have the "UN_SETUP.EXE" file, and uses "**SETUP.EXE**" or "**INSTALL.EXE**" for installation and un-installation.

12.9 Uninstall

Remove **Juzt-Reboot® Driver** (Pre-Windows driver) from your computer. A dialog box with the message "**This will remove the protection shield from the machine, OK to continue**" will appear. Select **[OK]** to remove **Juzt-Reboot®** from the computer, otherwise select **[Cancel]** to abort. After removing **Juzt-Reboot®** Software Driver, you have to power off the computer and pull out the **Juzt-Reboot®** card.

After remove JR Driver (Pre-Windows driver), Please also uninstall the JR Win Driver in Window to fully remove all **Juzt-Reboot®.**
See next paragraph:

For Windows 95/98/ME/NT/2000/XP/2003/Vista/7: It is recommended to uninstall (in Supervisor mode) **Juzt-Reboot®** Win Driver from the operating system by running **UN_SETUP**" from **Juzt-Reboot® Driver** Disk or CD first (the latest version of the driver disk does not have the "**UN_SETUP.EXE**" file, and uses "**SETUP.EXE**" or "**INSTALL.EXE**" for installation and un-installation). However, even if you did not uninstall this driver, the operating system will not be affected and continue to operate normally.

To Uninstall:
Place the Juzt-Reboot® CD and run the "SETUP.EXE" or "INSTALL.EXE"

WARNING!!
After uninstalling **Juzt-Reboot®**, ALL Partitions created with **Juzt-Reboot®**'s **Disk Setup** function with **Reserve C** and **Advanced** installation mode will disappear. However, all partitions will be retained by **Juzt-Reboot®** with **Express** installation mode.

12.10 About

Displays **Juzt-Reboot®** Hardware Version and Driver Software Version (as shown on the following):

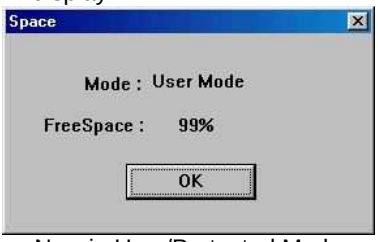
Press [ESC] or [ENTER] to continue and return to **[Configuration]** menu screen.

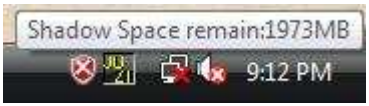
12.11 Exit

Exits **[Configuration]** menu screen and returns to **Juzt-Reboot® Startup** screen.

13. Space Utility

The "**Space**" utility is installed together with **Juzt-Reboot®**'s Win Driver. This utility is located under the "**Start → Programs**" menu (created during setup). It displays current operating mode ("**Supervisor**" or "**User**") and **Buffer** usage (%). Refer to the following screenshots:

For Model JR-PCI-NT and JR-SW-PRO	
In **User** (protected) mode: **Space** will display:  Now in User/Protected Mode	In **Supervisor** (unprotected) mode: **Space** will display: Now in Open/Unprotected Mode

For Model JR-PCIe, JR-PCIe-WOL, JR-PCI-VT and JR-SW-VT (Vista)	
Placing mouse over the JUZT icon will display shadow buffer usage  Now in User/Protected Mode (Place Mouse Arrow over JUZT icon)	When booting up into Windows, a dialogue box displays: Now in Open/Unprotected Mode

"**Mode**" indicates Supervisor or User mode. "**Free Space**" indicates the amount of buffer space available in **User** mode only. This amount will decrease as more changes in the HDD take place.

14. Using Juzt-Reboot®

There are many settings in **Juzt-Reboot®**. But you may ask, "Which one is the right one to use?" That will depend on your needs and environment. To guide you along, two of the most common settings used are as described below:

(a) **Automatic Restore**

Partition type is set to "**Instant Restore Boot Partition**" with "**Restore**

Type" set to "**Every**". This setting is useful for computers which are constantly accessed by different users all the time. Each user may modify the computer's system settings to his/her preferences, install and/or remove applications, etc. Using **Automatic Restore**, every time the computer reboots, the system will be restored to its original settings and contents. This is very useful for schools, colleges, universities, training institutes, libraries, Internet access outlets, data entry terminals and network workstations. This can also be applied to home, office and individual users as the system is protected at all times (i.e. every time you restart the computer, the system is always in good order even after it has been corrupted or infected by viruses). However, you have to move all constantly changing data (e.g. Folders for **Outlook Express** e-mails, "**My Documents**", "**Favorites**", etc) to another partition (e.g. logical drive **D:**, **E**:, etc) or another HDD.

(b) **Manual Restore**
Partition type is set to "**Instant Restore Boot Partition**" with "**Restore Type**" set to "**Manual**". This is useful for computers which are accessed by an individual user. All changes will be kept, and the user can **Backup** these changes at any time. Whenever the system fails (due to virus attack, system corruption, format, FDISK or accidental deletion), the user can always **Restore** the system back to the point where the user last performed **Backup**. However before performing any **backup**, make sure your system is in good order and free of viruses. This is also useful for "**experimentation**". For example: you can install new software to test without worrying about systems settings changed and/or corruption. If the newly installed software works properly and you want to keep it, then perform **Backup**. However if the new software corrupts the system and/or you no longer want to keep it, then perform **Restore**. This is very useful for testing software that are not properly programmed, and/or cannot be installed/uninstalled properly.

Note:
You can perform "**Scandisk**" but please do not try to defragment the HDD in "**User**" mode as **Juzt-Reboot®** will re-organize your HDD automatically during "**Backup**".

15. Using Net-Clone

After selecting "**Net-Clone**" from the "**Configuration**" menu, the following menu is displayed:

To run Net-Clone, ensure that the following conditions are met:

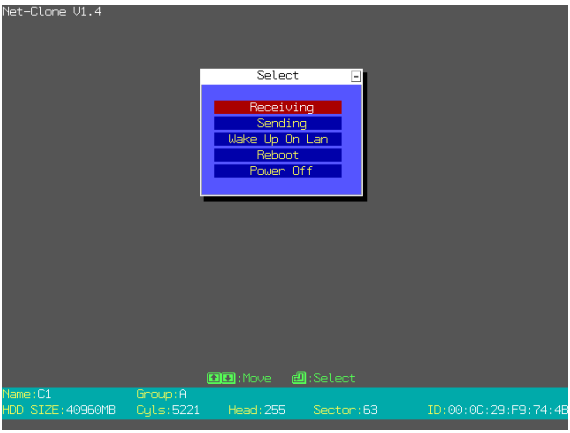
(a) That all the PCs that are to run Net-Clone have a network adapter (either built-in on the motherboard, or installed in one of the PC's slots).
(b) That all these PCs have the **Juzt-Reboot®** installed.

(c) That the network card is supported in the list of network adapters in "**Net-Clone Setup → Packet Driver**".
(d) If the network adapter is not in the list, then obtain the latest LAN-DRV update diskette from us or your distributor/dealer and upgrade using the "**Upgrade**" option in the **Configuration** menu (refer to "**12.8 Upgrade**").
(e) If the NIC in use is still not in the list of supported NICs even after updating, then you will have to find the packet driver for your LAN card and use the DOS version of the Net-Clone utility to perform the Net-Clone (refer to "**15.5 Using Net-Clone with Packet Driver**").
(f) You may also request a Multi-LAN_Drive CD image file from us to perform Net-Clone.

For Net-Clone operations, there are two types of Net-Clone mode the computer can be set to: the "**Sending**" computer, and the "**Receiving**" computers.

The "**Sending**" computer is the PC which has all the hard disk contents to be copied from. The "**Receiving**" computers (the rest of the computers in the network) are the PCs which will receive the contents from the "**Sending**" computer.

After configuration of Network Adapter (refer to "**15.1 Net-Clone Setup**"), select "**Run Net-Clone**" and press [ENTER] . A screen similar to the one below appears:



Use [↑] [↓] cursor keys to select and press [ENTER] to execute the **Net-Clone** function. Press [ESC] to exit and return to **Juzt-Reboot Tools** screen.

Note:
For Copying Partition(s): The HDD size on the receiving computer(s) must be equal to or greater than the sending computer.

15.1. Net-Clone Setup

Before running Net-Clone, ensure that you have configured the correct type of network adapter in the **Juzt-Reboot®** "**Net-Clone Setup**" menu.

Use the ↑ ↓ keys to select **"Net-Clone Setup**" and press ENTER to configure the settings.

Use the ↑ ↓ keys to select "**Packet Driver**" field and PG UP PG DN to select the packet driver. Press ESC key to exit and save the settings.

Below are the descriptions of the other settings:

(a) **Auto Standby**

Enables automatic detection of any "**Sending**" computers on the network during booting or at **Juzt-Reboot® Boot Menu** screen. When found, this computer becomes the "**Receiving**" computer and the "**Receiving**" screen will be displayed showing logged in (refer to "**15.2 Receiving**"). Options available are **Enable** and **Disable** (default).

(b) **Computer Name**

Name of this computer when used to login to the "**Sending**" computer. If the name is blank (empty), the "**Sending**" computer will show "**?**" in the login table of the "**Sending**" screen. Maximum length is 10 characters.

(c) **Group Name**

Name of the group this computer belongs to. You can use this to distinguish groups of computers on the network. It can also be used to select a group which can be allowed to login to this computer when "**Sending**" is used. Maximum length is 10 characters.

15.2. Receiving

Puts the computer on "**receiving**" mode (the computer will wait for a "**sending**" computer on the network). See the screenshot below:

At any time, press F10 or ESC key to exit and return to **Net-Clone** screen.

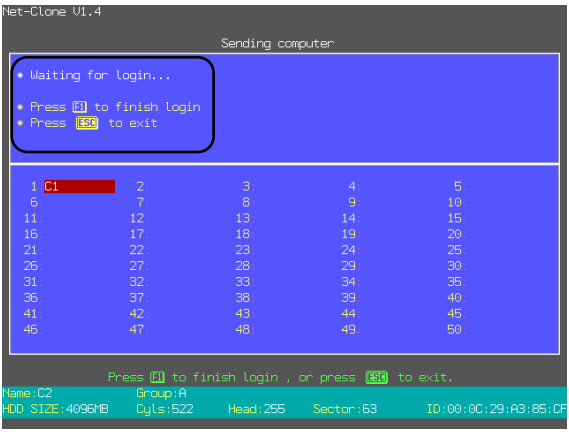
If the receiving computer detects any "**sending**" computer, the message "*** Waiting for login…**" will change to "**ID:xx**" to indicate successful login.

When any partition and/or parameter data is being received, a spinning "**/**" will appear.

Note:
This screen can automatically appear on all receiving computers when a "sending" computer is detected on the network. To enable this feature, go into "**Net-Clone Setup**" and set "**Auto Standby**" to **Enable** (refer to "**15.1 Net-Clone Setup**").

15.3. Sending

Put the computer into "**Sending**" mode (the "**Sending**" computer will try to detect any "**Receiving**" computers on the network). When executing this function, the **Sending** screen will be displayed. See the following screenshot:

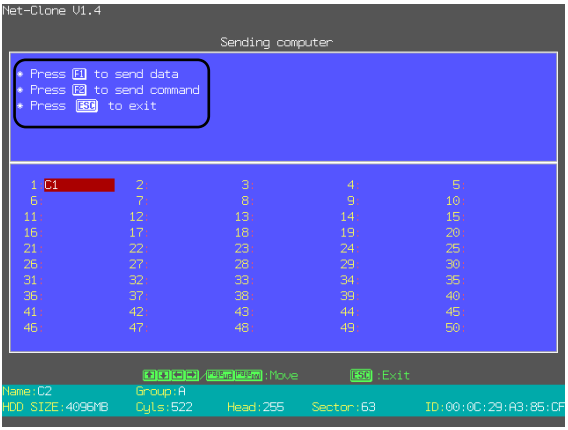

Net-Clone V1.4
Sending computer
* Waiting for login...
* Press F1 to finish login
* Press ESC to exit
1 C1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
26 27 28 29 30
31 32 33 34 35
36 37 38 39 40
41 42 43 44 45
46 47 48 49 50
Press F1 to finish login , or press ESC to exit.
Name:C2 Group:A
HDD SIZE:4096MB Cyls:522 Head:255 Sector:63 ID:00:0C:29:A3:85:CF

In the **Sending** screen (shown above), a login table will be displayed. Each field "[ ]" in the login table represents a "**Receiving**" computer on the network. Any "**Receiving**" computer detected on the network will show up in the login table above as a "**?**" or its **Net-Clone Computer Name** (as assigned in **Net-Clone Setup** (refer to "**15.1. Net-Clone Setup**").

The "?" means the computer is not assigned with a computer name, however, it's Mac Address of the network adapter will still can be detected and can be cloned.

When all the "**Receiving**" computers on the network have logged in successfully and are ready, press F1 to proceed (to finish login).

After pressing F1, the "Hotkeys" will now change. See the screenshot on the following:



Use ↑ ↓ ← → to move the cursor in the login table. Press F10 or ESC key to exit and return to **Net-Clone** main screen.

See below for detailed description of F1, F2, + and − hotkey functions:

F1 : Send data
Sends partition and parameter data to "**Receiving**" computers on LAN. Refer to "**15.3.1 Send Data**" on the following page.

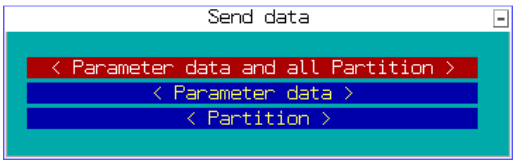
F2 : Send command
Sends command to "**Receiving**" computers on LAN. Refer to "**15.3.3 Send Command**".

+ − : Delay
Increase/decrease the transmission delay of the network card for best performance. Press + to increase and − to decrease the **Delay** value. If the default value runs normally, then please do not adjust.

To proceed with Sending the data to the other PCs, refer to "**15.3.1 Send Data**" on the following next page.

15.3.1 Send Data

Sends partition and/or parameter data to "**Receiving**" computers on LAN. See the screenshot below:



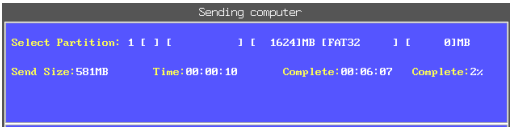
Use ↑ ↓ cursor keys to select and press ENTER to start sending. Press ESC to exit and return to **Sending** screen. For description of each command, see next:

(a) **< Parameter data and all Partitions >**
Copies all **Juzt-Reboot®** data (including configuration data, such as Password, Restore Schedule, etc) and all partitions to "**Receiving**" computers.

(b) **< Parameter data >**
Copies all **Juzt-Reboot®** data (including configuration data, such as Password, Restore Schedule, etc) to "**Receiving**" computers.

(c) **< Partition >**
Copies a selected partition to "**Receiving**" computers. Refer to "**15..2. Select Partition to send**".

When you start sending, the "**Sending**" screen will be displayed with the transmission progress and status. See screenshot:



Use ↑ ↓ ← → to move the cursor in the login table. Press + − to adjust **Delay**. Press F5 to break/abort all transmission.

Note: The **Delay** setting here is the same as the one in the second "**Sending**" screen (refer to "**15.3. Sending**" on page 35).

The type of data it is sending is displayed on the first row in the table. For **Parameter data**, it will display "**< Send Parameter Data >**". For **Partition data**, it will display "**< Send Partition >**", **Partition Type**, **Partition Name** and **Partition Size**. Details of other information on screen are described below:

Size : The size of the current partition being sent.

Time : Amount of time elapsed during transmission.

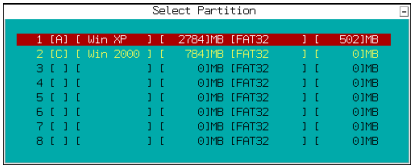
Complete (1) : Amount of time estimated for transmission to complete.

Complete (2) : Transmission progress (in %)

When transmission is completed, the message "**Send completed! Press any key to continue...**" will be displayed at the bottom of the screen (at the hotkeys row). Press any key to continue and return to the **Sending** screen.

15.3.2 Select Partition to Send

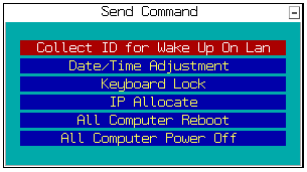
Select a partition to send for **Net-Clone**. See the screenshot:


Select Partition
1 [A] [Win XP] [2784]MB [FAT32] [502]MB
2 [C] [Win 2000] [784]MB [FAT32] [0]MB
3 [ ] [ ] [0]MB [FAT32] [0]MB
4 [ ] [ ] [0]MB [FAT32] [0]MB
5 [ ] [ ] [0]MB [FAT32] [0]MB
6 [ ] [ ] [0]MB [FAT32] [0]MB
7 [ ] [ ] [0]MB [FAT32] [0]MB
8 [ ] [ ] [0]MB [FAT32] [0]MB

Use ↑ ↓ cursor keys to select partition and press ENTER to start sending. Press ESC to exit.

15.3.3 Send Command

Sends command(s) to "**Receiving**" computers on the LAN. See the screenshot:



Use ↑ ↓ cursor keys to select command and press ENTER to start sending. Press ESC to exit and return to the "**Sending**" screen.

For descriptions of each command, see below:

(a) **Collect ID for Wake Up On Lan**

Records the network card ID of all receiving computers. This function is required by **IP Allocate** utility, and **Wake Up On Lan** remote control.

(b) **Date/Time Adjustment**

Synchronizes the time and date of all "**Receiving**" computers with the "**Sending**" computer.

(c) **Keyboard Lock**

Locks up the keyboards of all "**Receiving**" computers with the "**Sending**" computer.

(d) **IP Allocate**

Allows the user to allocate IP addresses for each "**Receiving**" computer. After completed allocating, each PC will have its own IP Address and Computer Name in Windows OS.

(e) **All Computer Reboot**

Restarts all "**Receiving**" computers including the "**Sending**" computer itself.

(f) **All Computer Power Off**

Power off all "**Receiving**" computers including the "**Sending**" computer itself. For this command to work, all computers must use ATX power supply.

Note:
After you have finished transmitting all partitions and parameter data, it is recommended to reboot **all computers to Supervisor Mode one or two times**. This is to implement the new settings and operating system(s).

15.4 Wake Up On LAN

Enables "**Sending**" computer to "Wake Up" (Power On) all "**Receiving**" computers connected on LAN. To use this function, the receiving computers must use ATX power supply, motherboard with WOL support and network card with WOL feature. WOL option must also be enabled in the BIOS.

Note: Before executing this option, you have to execute "**Collect Net Card ID**" command (ie. Under the **Sending** screen, select "**Sending**" ⇨ "F1 **:Finish login**" ⇨ "F2 **:Send command**" ⇨ "**Collect ID for Wake Up On Lan**").

15.5 Net-Clone with Packet Driver

The **Net-Clone** feature can be used with Network Adapters that are not supported in the "Packet Driver" list as long as the PC has a Network Adapter installed, and has a DOS version of the packet driver.

Obtain the packet driver for the Network Adapter, either in the network card's driver or you can download from the network card's manufacturer's web site.

Step1: Boot from floppy drive A:
Insert a DOS or **Windows 95/98 Boot disk** into the floppy drive, and boot from this diskette. The DOS prompt "**A:\>**" should appear.

Step 2: Run network card packet driver
Insert network card driver disk into the floppy drive. Look for the packet driver (usually under a folder called **PKTDRV** or a similar folder name) in the diskette (e.g: RTSPKT.COM, E2000.COM, PKTDRV.COM, DLKPKT.COM, etc.). Type the name of this file, followed by the interrupt number "**0x60**" and press ENTER .

Example: A:\> RTSPKT 0x60 ENTER

Step 3: Run Net-Clone utility
Insert **Juzt-Reboot®** LAN-DRV Upgrade Disk into the floppy drive. Change to the SNCOPY directory with the following command:

A:\> CD \SNCOPY ENTER

Look for the executable files named "**SC_TSR.COM**" and "**SC-xx.EXE**" (the xx represents the version number) in the diskette. Type the name of these files and press ENTER to run the **Net-Clone** utility, as shown in the examples below:

A:\> SC_TSR ENTER
A:\> SC-23 ENTER

You may now proceed to "**16. Using Net-Clone**" (on page 32) on usage and functions.

Note: These procedures are rather technical and are not meant for ordinary users who are not familiar with DOS mode and CLI (command line interface).

15.6 Net-Clone with Multi_LAN-Drive CD:

We have also compiled a list of Packet Drivers and NDIS in a CD which you can boot-up in DOS to perform net-cloning. The list includes Intel series, Realtek series, Broadcom series, 3Com series, D-Link series, VIA series, Accton series, nForce nVidia, Marvell, SiS, ATHEROS, MX32PD, AMD PCNET and others.

You may request from us a Multi_LAN-Drive CD image file.

16. FAQs - Frequently Asked Questions:

16.1. General FAQs

1. **Q. How does "Intelligent Backup Technology" work?**
   A. "*Intelligent Backup Technology" works by recording changes made to the HDD, thus it only requires a small amount of HDD space to operate.*

2. **Q. Is it easy to install the Juzt-Reboot Card?**
   A. *Yes. It is "Plug and Play".*

3. **Q. Can Juzt-Reboot® be upgraded?**
   A. *Yes. You can download the upgrades at our website (www.juzt-reboot.com).*

4. **Q. Can Juzt-Reboot® support Linux, UNIX and BSD operating systems?**
   A. *Yes, only under "Backup Restoration Mode".*

5. **Q. Is there going to be a Mac version of Juzt-Reboot®?**
   A. *We are considering the possibility of a Mac version in the future.*

6. **Q. Can I know where Juzt-Reboot® has been used?**
   A. ***Juzt-Reboot®*** *has been used in places like universities, colleges, libraries, school computer labs, libraries; R & D Centers, educational labs, training centers, Internet stations, corporate sector, government sector, and private enterprises, etc.*

7. **Q. Why those places?**
   A . *In these places, the computers are always being accessed by many different people all the time. Juzt-Reboot® will protect the computer's operating system against modifications, tampering, pranks and viruses.*

8. **Q. My computer already has an operating system. Do I have to reinstall to use Juzt-Reboot®?**
   A. *No. **Juzt-Reboot®** can retain your existing DOS or Windows operating system. For other type of operating systems, please back them up and use Advanced to configure the partitions before installing or restoring from backups.*

9. **Q. There are other software only solutions in the market. What makes Juzt-Reboot® special and why does it require a hardware card?**
   A. *Software only solutions can easily be hacked and cannot offer any real protection outside the operating system. The **Juzt-Reboot®** hardware card can protect against such intrusion or corruption by intercepting them outside the operating system or at the hardware level.*

10. **Q. Why software only solutions cannot offer protection "outside the operating system"?**
    A. *"Software only solutions" are specifically written for an operating system. If the operating system is not running, then the "software only solution" cannot operate. An example is the BIOS/CMOS settings which come first before any operating system.*

11. **Q. How about Juzt-Reboot® SW PRO and SW VT software version? What are the differences compared with other software only solutions that run inside the Windows?**
    A. *Unlike other software only solutions that run inside the Windows, our breakthrough technology of Juzt-Reboot® SW PRO and SW VT software solution are similar and built based on the same technology of hardware version. Thus, it also protect against any intrusion or corruption by intercepting them outside the operating system.*

12. **Q. Can Juzt-Reboot® protect the BIOS/CMOS settings?**
    A. *Yes. It will automatically restore a good copy when any of the settings are tampered with or become corrupted.*

13. **Q. Why should I protect the BIOS/CMOS settings?**
    A. *If the BIOS/CMOS settings are corrupted, your computer may not start, hang or behave abnormally, or it may even crash your operating system or corrupt your HDD.*

14. **Q. Can you assure me that Juzt-Reboot®'s password is secure?**
    A. *Yes. Juzt-Reboot® emphasizes on security.*

15. **Q. What is "Supervisor mode"**?
    A. *It also means "Unprotected mode or Open mode" which is usually for the computer administrator or manager. In this mode, whatever changes made (editing / deleting / moving / renaming files, installing / upgrading / removing software, etc.) will be permanent.*

16. **Q. What is "User mode"?**
    A. *It also means "Protected mode" which is for computer users and public access. In this mode, whatever changes made (editing/ deleting / moving / renaming files, installing / upgrading / removing software, etc.) are temporary and when rebooted, everything returns to the original setup.*

17. **Q. Can someone FORMAT/FDISK the HDD under "User mode"?**
    A. *No. It is impossible even in real DOS mode. Even if someone tries, just reboot and everything will be back to normal.*

18. **Q. How can I reformat my HDD without removing Juzt-Reboot®?**
    A. *You can reformat your HDD under Supervisor mode only. However, if you really want to reformat your HDD, however, it is advisable to uninstall Juzt-Reboot then only perform the formatting.*

19. **Q. How can I retrieve my Supervisor password if I forgot?**
    A. *If you forgot your password, you can only retrieve an encrypted form of the password, since **Juzt-Reboot®** stresses on security of the system. When you are prompted for the Supervisor password, press down the "**Shift**" key and type in "**2329**", and then press the "**F10**" key **(i.e.** SHIFT **+** 2 3 2 9 **+** F10 **)**. The screen will clear and a string of characters appears. There will be 12 sets of them (example: 10 0 49 81 65 90 50 119 115 120 51 69). Copy down the string exactly, and send it to your distributor/dealer or to us directly (at support@juzt-reboot.com) for decoding of the password. Please also send along proof of ownership of the products, for example Invoices and your identity details.*

20. **Q. My Juzt-Reboot® card cannot be detected after accessing Hardware Mode settings. How to solve this problem?**
    A. *You may accidentally have set the Hardware Mode that totally not supported by the motherboard that you are having now. You can try plug-in to another brand of motherboard which may detect the card and allow you to access to Hardware Mode setting again to change back the original mode. Otherwise, you will need to request a utility tool from us to reset the Hardware Mode.*

    Change the hardware mode only when the PC cannot detect the card or cannot install at all. See also 16.2 Q8, 9 & 10.

21. **Q. My system is used for graphics creation and is disk I/O intensive and I find that my Juzt-Reboot® frequently runs into low buffer situations. How to solve this problem?**
    A. *The Juzt-Reboot® buffer keeps track of all disks I/O while Windows is running. If the **Juzt-Reboot®** frequently fills up and you have another partition (Drive D:), then you can move some of your settings to save to drive D:. You can change your Windows or applications to save data files to drive D: and thus reducing the number of files **Juzt-Reboot®** has to keep track of. We strongly advise you to move the Windows Virtual Memory (i.e. Swap/Paging file) to D: Drive. To further reduce the load, you can also disable Hibernation Mode, disable Windows System Recovery, Relocate Internet Browser Temporary folder to D: Drive, Disable Windows Auto Updates and remove any unnecessary programs running in the background. **See S1.Supplemental Information**.*

    *If you installed the **Juzt-Reboot®** with the default 500MB buffer, you can also try uninstalling it, and then reinstall it and specify a larger buffer or set to maximum.*

16.2. Installation FAQs

1. **Q. Before installing Juzt-Reboot®, are there any steps to perform?**
   A. *Please run Windows Scandisk and Disk Defragmenter to ensure there are no file and system errors and to de-fragment the files on the hard disk. Also perform a full hard drive clean up and also remove all temporary files. If in doubt, backup important files then reformat the hard disk and re-install a fresh new Windows.*

2. **Q. Why do I have to run Scandisk before installing Juzt-Reboot®?**
   A. *Before any installation, the HDD must be checked for errors. This is to ensure that all the original information, which **Juzt-Reboot®** will use for restoration, is valid.*

3. **Q. Why do I have to defragment the HDD before installing Juzt-Reboot®?**
   A. *This is because **Juzt-Reboot®** requires a large contiguous area of the hard disk to allocate the buffer. Defragmention will also ensure that all the files are not fragmented, and helps the system perform better by not having to seek all over the hard disk when loading system files. Furthermore, you do not have to do housekeeping anymore because Juzt-Reboot always restore to the original point.*

4. **Q. How do I go into "real DOS mode"?**
   A. *Just create a "Startup Disk" with "Add/Remove Programs" in "Control Panel", and then boot from this disk. Another method is to keep pressing the [F8] key when Windows is starting and then select "Command Prompt Only" from the menu.*

5. **Q. What is Error Code 123? I am not able to access Juzt-Reboot Configuration, How to uninstall?**
   A. *The error code 123 normally means the Juzt-Reboot cannot find or recognized the hard disk exists. Locate HDD Controller at BIOS to change the SATA Operation Mode to Enhance IDE or Legacy. Another setting is to avoid RAID and AHCI. Use Native IDE/ATA instead. If for whatever reason and you need to uninstall JR first to get rid of the error code 123, you can request an UN-JR utility from us to uninstall Juzt-Reboot in DOS.*

6. **Q. Which PCI expansion slot should I use?**
   A. *For Model JR-PCI-NT & JR-PCI-VT, use any free PCI expansion slot will do. For Model JR-PCIe & JR-PCIe-WOL, use PCI-e x1 slot (PCI Express X1).*

7. **Q. The Juzt-Reboot® screen does not appear (not detected). What should I do?**
   A. *In the BIOS/CMOS settings, disable virus protection and select NETWORK/LAN as the first boot device. Some other BIOS require that the "Network Boot" feature be enabled. For some older BIOS, enable "Option ROM". Some latest BIOS will display Juzt-Reboot at boot sequence, please set it in first boot order. For some motherboard, changing of Hardware Mode may be required.*

8. **Q. What is the use of "Hardware Mode" in the "Hardware Setup"?**
   A. *The "Hardware Mode" is to set the compatibility level for **Juzt-Reboot®** card. This is because different computers use different components and hardware designs such as the motherboard chipset and BIOS.*

9. **Q. Which "Hardware Mode" do you recommend?**
   A. *If **Juzt-Reboot®** card works properly with the default "Hardware Mode", (A or D depending on the card version) there is no need to change it. Otherwise, try the other modes. Some ASUS motherboards cannot work with Mode A, in that case please use mode B. Some Intel 845 and newer chipsets as well as many of the MSI motherboards can use Mode C.*

10. **Q. How can we change the "Hardware Mode"?**
    A. *If you have the latest version of the **Juzt-Reboot®** card, you can press the [ALT] + [M] keys once you see the "**Juzt-Reboot HARDWARE: vx.x**" message appearing on the top right-hand corner of the screen after the BIOS Power On Self Test. However, you may find a dip-switch on some card which is also the Hardware Mode. If you have an older version of the card, you will have to obtain a copy of the RSETPCI utility disk. Boot up the PC using the RSETPCI utility disk as the boot or driver disk. For JR-PCIe and JR-PCIe-*

WOL, please request RSET_JRVTA.0.iso image file from us. When log in to Hardware Mode setting, the default mode will be displayed.

For those cards have dip-switch, such as JR-PCI-VT 10.x card, please refer below:

Mode D (Default)	*Mode C*	*Mode B*	*Mode A*
1 OFF	*1 ON*	*1 OFF*	*1 ON*
2 OFF	*2 OFF*	*2 ON*	*2 ON*

Please follow the below configuration for testing:
i. JR hardware Mode A + BIOS First Boot Sequence is [LAN] or [Juzt-Reboot].
ii. JR hardware Mode B + BIOS First Boot Sequence is [LAN] or [Juzt-Reboot].
iii. JR hardware Mode C + BIOS First Boot Sequence is [LAN] or [Juzt-Reboot].
iv. JR hardware Mode C + BIOS First Boot Sequence is [LAN] or [Juzt-Reboot]. Try locates the BIOS option for the built-in LAN, and Enable the NETWORK BOOT ROM.
v. JR hardware Mode D is the Default mode.

11. **Q. Are there any "Hardware Mode" for Juzt-Reboot SW Software Version?**
    A. *No. Hardware Mode is not applicable to Software Version.*

12. **Q. An exclamation mark (!) appears on "IDE controller" in Windows "Device Manager" after installing Juzt-Reboot® card. Why?**
    A. *You must run the file "Setup.exe" located in the installation disk under Supervisor mode. This will install **Juzt-Reboot®**'s IDE driver and utilities.*

13. **Q. After installing Juzt-Reboot®, the CD-ROM drive cannot be detected. What should I do?**
    A. *Make sure the CDROM drive is not sharing the primary IDE with the HDD. It is recommended to connect the CDROM drive to the secondary IDE. For SATA HDD & CD/DVD, place SATA HDD in SATA0, CD/DVD in SATA1.*

14. **Q. Are there any Windows ME drivers?**
    A. *You can use the Windows 95/98 driver which is fully compatible with Windows ME.*

15. **Q. I have downloaded your upgrade from your website. How to upgrade Juzt-Reboot®?**
    A. *The upgrade usually is an image file and requires extracting it to a blank floppy disk or burn into a blank CD. If the upgrade is a floppy image (*.exe), then double-click it will start the self-extracting program to create driver into a floppy diskette. If the upgrade is a CD image (*.nrg or *.iso), then CD-Burner program to unpack and burn the driver into a blank CD. Once you have the upgrade driver ready, restart computer, press F10 at the Juzt-Reboot OS Menu to enter into Juzt-Reboot® Configuration, selects "Upgrade".*

16. **Q. How do I protect the BIOS/CMOS settings with Juzt-Reboot®?**
    A. *Enable "Auto-Restore CMOS data" function. But before you do this, you must execute "Analyze CMOS data". Note that this operation will reboot the system twice.*

17. **Q. I intend to install and use Linux with Juzt-Reboot®. Is there any important information I should know before I install?**
    A. *Juzt-Reboot® supports Linux under Backup Restoration Mode. Linux can only be installed in the first partition and you must create a Linux swap partition. During installation, you will have to select the "Manually partition with Disk Druid" option and manually select the previously configured Linux and Linux/SW partitions as the Linux Native partition (mount point "/" and "ext3") and the Linux Swap partitions. Select the "Use LILO as the boot loader" and that the LILO (Linux Loader) must be installed in the "First Sector of Boot Partition" instead of the "Master Boot Record" (MBR). Lastly, if the boot sector is over 8.4GB from the beginning of the hard disk, then the "Force LBA32" option must be enabled.*

18. **Q. Can I change the size of the partitions after Juzt-Reboot® has been installed?**
    A. *Once the partitions have been set up, they cannot be changed. You will have to backup all your partitions and/or data and uninstall the card. Then recreate the partitions with the desired sizes and set up everything again, or restore from your backups.*

16.3. Hard Disk Copy FAQs

1. **Q. What is "parameter data"? In the manual, it only states "Juzt-Reboot® information".**
   A. *"Parameter data" is actually **Juzt-Reboot®**'s data such as passwords, partition information and configuration settings of the "source" HDD.*

2. **Q. Is it necessary for "destination" computer to have exactly the same hardware specifications for Hard Disk Copy to work?**
   A. *No, but it is highly recommended that the "destination" computers should be the same. Normally, when Windows detects changes or differences in hardware (motherboard chipset, BIOS, VGA, etc) on the "destination" computer, the hardware detection cycle will start again. Bear in mind, Windows XP, Vista, 7 will not start if the destination computer is not the same.*

3. **Q. What are the hardware components in the computer that can be different?**
   A. *The amount of RAM, CD/DVD drive, floppy disk drive and keyboard. Windows detects and registers them automatically.*

4. **Q. What are the hardware components in the computer that cannot be different?**
   A. *The "destination" HDD type and capacity should be the same although the "destination" HDD capacity can be higher. For cloning Windows XP, the motherboard (chipset) must be the same.*

5. **Q. Please explain about "HDD type and capacity".**
   A. *"HDD type" here refers to the number of physical cylinders, heads and sectors. From these parameters, the HDD's capacity can be determined.*

6. **Q. Can I perform "Hard Disk Copy" to a HDD from a different manufacturer but with the same capacity?**
   A. *Yes, provided the HDD have the same number of cylinders, heads and sectors but not recommended.*

7. **Q. Can I perform "Hard Disk Copy" to a HDD of higher capacity?**
   A. *Yes, provided the HDD have the same number of heads and sectors but not recommended.*

8. **Q. Does HDD speed also affect "Hard Disk Copy" performance?**
   A. *Yes, the faster HDD will take less time for "Hard Disk Copy" to complete. For example: 7200rpm HDDs will copy faster than normal 5400rpm HDDs.*

9. **Q. The source and destination computers' hardware are identical. Why, after "Hard Disk Copy", Windows starts hardware detection?**
   A. *Some differences in the BIOS/CMOS settings and/or the BIOS version can still activate this hardware detection.*

16.4. Network FAQs

1. **Q. What is Netclone?**
   A. *Netclone stands for Network-Cloning. Netclone feature is available only for **Juzt-Reboot®** JR-PCIe, JR-PCIe-WOL, JR-PCI-NT, JR-PCI-VT, JR-SW-PRO, JR-SW-VT. It is to transmit data and/or partitions from one PC to another over the Local Area Network. Up to 200 PC at one time can be cloned simultaneously.*

2. **Q. What is "parameter data"? In the manual, it only states "Juzt-Reboot® information".**
   A. *"Parameter data" is actually **Juzt-Reboot®** data such as password, partition information and configuration settings of the "sending" computer.*

3. **Q. Can I use Juzt-Reboot® in a computer that does not supports WOL?**
   A. *Yes. But you will not be able to use the WOL function on the motherboard.*

4. **Q. Is it necessary for every computer on the network to have exactly the same hardware specifications for Net-Clone to work?**
   A. *No, but it is recommended that all the computers should be the same. See 16.3 Hard Disk Copy Q2.*

5. **Q. Can Juzt-Reboot® SW software version have Net-Clone feature?**
   A. *Yes. The latest version of JR-SW-PRO and JR-SW-VT has Net-Clone feature.*

6. **Q. Does network adapter speed affect Net-Clone's performance?**
   A. *Yes, faster network adapter speed will give better performance. We recommend at least 100Mbps. Please take note that, actual Net-Clone performance also depends on the network traffic flow, actual throughput and cabling length.*

7. **Q. Does network traffic or bandwidth affect Net-Clone's performance?**
   A. *Yes, in a very busy network environment, it will affect the Net-Clone speed. In that case, using a separate switch/hub that only connects to the cloning computers will solve the problem.*

8. **Q. Does HDD speed also affect Net-Clone's performance?**
   A. *No, if the network speed is 100Mbps network. The HDD data transfer rates nowadays can exceed the transfer rate of a 100Mbps network connection. However using "1Gb" networking will improve the Net-Clone's performance.*

9. **Q. The sending and receiving computers' hardware are identical. Why, after Net-Clone, Windows starts hardware detection?**
   A. *Some differences in the BIOS/CMOS settings and the BIOS version can still activate this hardware detection. It is normal. After cloning, please login Supervisor Mode to allow the system to refresh. Furthermore, you may login Supervisor Mode again to change Computer Name and IP Address (if using fixed IP).*

10. **Q. I performed a Net-Clone from my sending computer to the receiving computer through the Local Area Network. After completing the process of sending the partitions and Juzt-Reboot® parameters, I noticed the recipient computer's hard drive was still empty. Nothing was copied into the recipient. What went wrong?**
    A. *When performing Net-Clone, please make sure the cables and network terminals are functioning. Modern computers use either 5400 rpm or 7200 rpm hard drives. Disable UDMA in BIOS for both sending and receiving computers. In certain cases, the hard drive is too fast to perform a write process.*

11. **Q. I performed a Net-Clone from sending to receiving computer through the Local Area Network. The speed indicator show very slow transmission or stop transmitting. How do I resolve the problem?**
    A. *Normally this happens when a manageable switch or router has disabled the multicast transmission. If the switch has a Network Management Function. Please enable IGMP (Multicast & Snoop) and Broadcast. An unmanageable switch will not have this issue.*

16.5. Troubleshooting FAQs

1. **Q. Why is my computer unable to detect the Juzt-Reboot® PCI Card?**
   A. *Ensure that the Card is properly inserted in PCI Slot. You may need to try different available slot. Some motherboards require you to change the BIOS setting on Boot Sequence to NETWORK/LAN or JUzt-Reboot selection to first boot sequence. Some motherboard requires you to change the Hardware Mode. Press* ALT + M *to get into PCI Card Hardware settings during POST. Mode A is the default (Newer card default is Mode D) and is the recommended value. Disable all Shadow RAM in BIOS for testing.*

2. **Q. I am trying to install Juzt-Reboot® Driver CD for Hardware Version, but every time I press Enter at the prompt of "Please Insert Install Disk", it does not load the Installation Program.**
   A. *Please try pressing "F5" to force BIOS to load the CD. If it still does not work, set CD-Drive in BIOS as First Boot Sequence. When returning to the prompt, press "F5" or "ENTER". Certain SATA CD-Drive requires you to change the SATA Configuration/Operation Mode to Legacy or Combine or Enhance in the BIOS. Alternatively, please download the Diskette Version driver or request from us a file WinInstall to Install via Windows. Please refer Page 11.*

3. **Q. Juzt-Reboot® is installed but it does not seem to be functioning correctly.**
   A. *Please ensure that you have followed the steps exactly as described in this User's Manual. Most people forgot to install the Setup.exe or Install.exe which is on the Juzt-Reboot driver floppy or CD. This installation needs to be carried out in [Supervisor Mode].*

4. **Q. While installing Juzt-Reboot driver, a message "Installation Error, Please Restart".**
   A. *There are a few possibilities. Please ensure that the Hard Drive does not have any bad sectors, disk read/write errors, I/O errors and system file errors. Run a Scandisk and Defragmentation or Reformat (also low-level-format) the Hard Disk will solve the problem. If this hard disk has previously been installed with other types of Recovery Software, it will cause the same problem. Usually reformatting the hard disk will clear all the hidden errors in the hard disk. Another possibility is the BIOS setup for IDE/SATA Controller. If using SATA Hard Disk, you may need to change the SATA mode as Primary and the Operation Mode Enhance or Legacy to test out. Another SATA setting is never use RAID and AHCI but use Native IDE/ATA instead. Please also check Internet if there are any new patches release so that you can upgrade the BIOS.*

S. Supplemental Information

This section provides additional information for the Juzt-Reboot® Advanced Users. It includes information on how to change the Windows Swap/Paging file location, how to move the Outlook Express email data to another folder, as well as the Linux installation procedure.

S1. Changing Windows Swap File/Virtual Memory Location

All versions of Windows require a Swap (or Paging) file while running. The location of this file is typically on the system drive (drive C:). For example, in Windows 98, the file is typically named Win386.swp and resides in C:\WINDOWS.

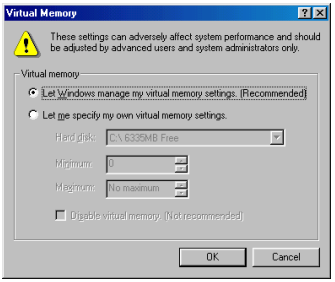
While Windows is running, it constantly swaps code in and out of memory and into the swap file. Thus the contents of the swap file are constantly changing.

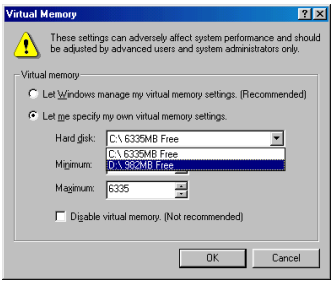
In a Juzt-Reboot® protected system, all changes to files are tracked by the buffer, and the constantly changing swap file places additional load to the Juzt-Reboot® buffer. The load to the buffer can be reduced by moving it to a location not tracked by Juzt-Reboot® such as to drive D:.

The following guide will take the user through the steps of changing the Swap File location to a second partition, the D: drive.

S1.1. Changing Swap File Location in Windows 98

From the Windows desktop, Right-Click **My Computer → Properties → Performance → Let me specify my own virtual memory settings → Hard disk** to bring a drop down list. Select drive **D:** from the list. See example. (The same effect can also be achieved by clicking on "**Start**", "**Settings**", "**Control Panel**", and then double-clicking on "**System**".).
Then click on the "**OK**" button to restart Computer.



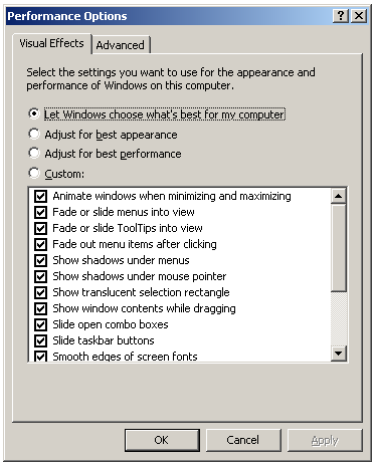


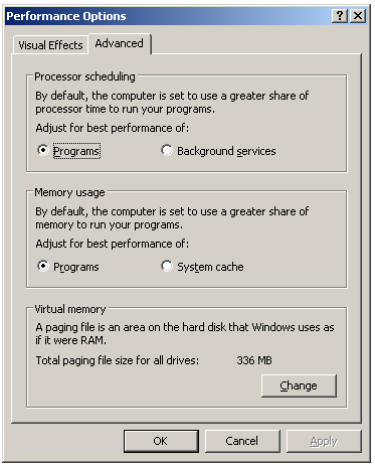
Confirm Virtual Memory Settings
You have chosen not to let Windows manage virtual memory automatically.
You may not be able to restart your computer, or your system may not perform optimally. Do not continue unless you are sure you need to specify your own virtual memory settings.
Are you sure you want to continue?
Yes
No

Remember to use CTRL + B to backup to Juzt-Reboot® if not in **Supervisor** mode.

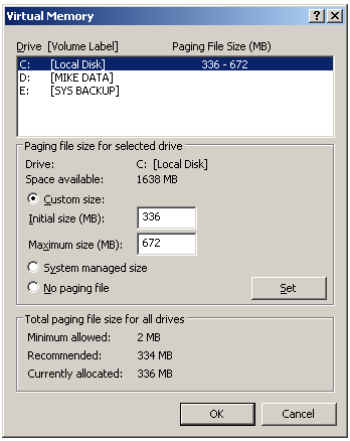
S1.2. Changing Swap File Location in Windows XP, Vista & 7

At Windows desktop, Right-Click **My Computer → Properties → Advanced → Performance Settings → Advanced → Change.**
(The same effect can also be achieved by clicking on "**Start**", "**Settings**", "**Control Panel**", and then double-clicking on "**System**").

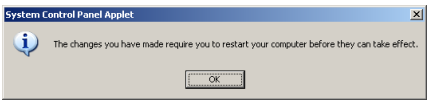

Performance Options
Visual Effects
Advanced
Select the settings you want to use for the appearance and performance of Windows on this computer.
Let Windows choose what's best for my computer
Adjust for best appearance
Adjust for best performance
Custom:
Animate windows when minimizing and maximizing
Fade or slide menus into view
Fade or slide ToolTips into view
Fade out menu items after clicking
Show shadows under menus
Show shadows under mouse pointer
Show translucent selection rectangle
Show window contents while dragging
Slide open combo boxes
Slide taskbar buttons
Smooth edges of screen fonts
OK
Cancel
Apply


Performance Options
Visual Effects
Advanced
Processor scheduling
By default, the computer is set to use a greater share of processor time to run your programs.
Adjust for best performance of:
Programs
Background services
Memory usage
By default, the computer is set to use a greater share of memory to run your programs.
Adjust for best performance of:
Programs
System cache
Virtual memory
A paging file is an area on the hard disk that Windows uses as if it were RAM.
Total paging file size for all drives: 336 MB
Change
OK
Cancel
Apply

To move the swap or paging file to another drive (for example drive D:), first disable the paging file on drive C: by following the steps below. Then, continue with setting up the swap file on drive D: :



a) Selecting drive C: in the "**Drive [Volume Label]**" list. In the above example, you can see that it has been selected, and a swap file sized between 336 and 672 MB has been set.
b) Click on the "**No paging file**" option, and click on "**Set**".
c) Select drive D: in the "**Drive [Volume Label]**" list (in this example, we will be changing the swap file location to drive D:). The "No paging file" option is initially selected.
d) Click on the "**System managed size**" option, and then click on the "**Set**" button.
e) Click on the "**OK**" button to restart computer.


System Control Panel Applet
The changes you have made require you to restart your computer before they can take effect.
OK

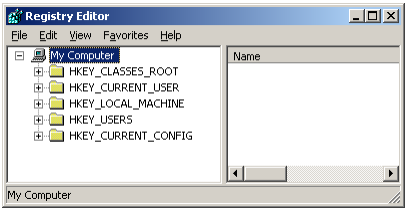
S2. Changing "My Documents" folder location

The location of the "**My Documents**" folder, by default after installation, is in Drive **C:**. Most applications will store your data files in this folder.

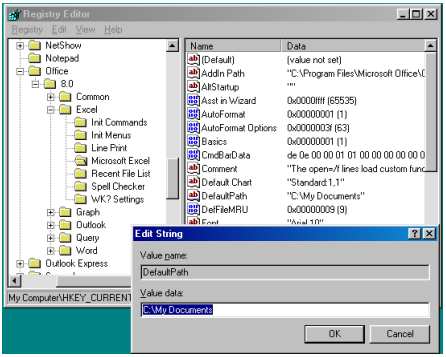
The location of this folder can be changed to an alternative location or drive.

S2.1. Changing folder location in Windows 98

For this customization, you will have to use the Windows Registry Editor. Please note that if changes are made incorrectly to the system, you may corrupt your Windows. Always make a backup copy of your System and User registry files before making any changes. In Windows 98, the "**My Documents**" folder is found in the directory "**C:\My Documents**". In the example below, we will be changing it to a directory on drive **D:** called "**D:\My Documents**". Please ensure that the directory on **D:** drive is created before proceeding.



1) To run the Windows Registry Editor, click on **Start → Run** and type in "**regedit**". Click on "**My Computer**" to select as shown.
2) Click on **Edit → Find** and type in "**C:\My Documents.** Click on the "**Find Next**" button to start the search.
3) For each instance that it finds the text "**C:\My Documents**" in the "**Data**" column on the right pane, edit it (double-click on the "**Name**" value) and at the "**Edit String**" dialog box, change the "**C:\My Documents**" to "**D:\My Documents**". Leave any other text there as it is. See example.

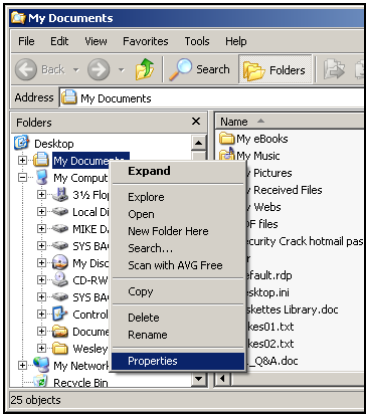


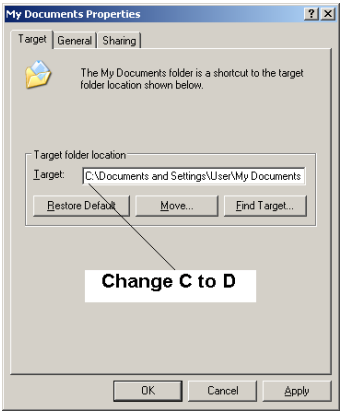
4) After editing the text, click on "**OK**", and then press the function key **F3** to continue and search for the next one to edit.
5) When all occurrences of "**C:\My Documents**" have been changed to **"D:\My Documents**", you can exit the registry editor. Restart Windows for changes to take place.
6) Remember to use CTRL + B to backup to Juzt-Reboot® if not in **Supervisor** mode.

S2.2. Changing folder location in Windows XP, Vista & 7

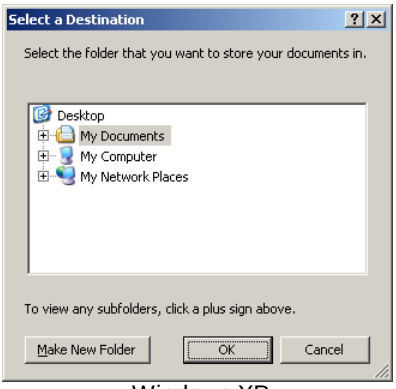
In Windows XP, Vista & 7, there may be several users defined in the system. The changes will have to be done for each user individually. That is, you will need to log in to each user profile, and carry out the relocation.

For this customization, do this following:
Right-Click My Document → Properties to open My Document Properties. Change the Target **C** to **D** and click **OK** button to confirm the move data action.

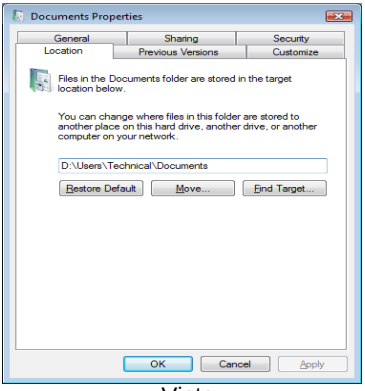




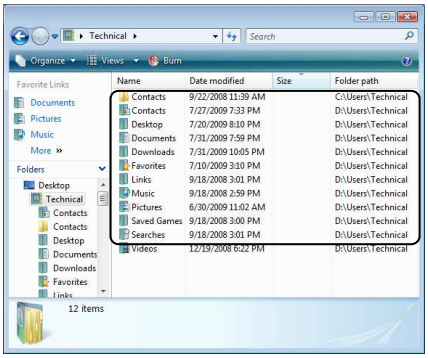
Or, if you select the Move Button instead of OK Button, please ensure that the destination folder has been created before proceeding. Select the destination to apply all the changes.



Windows XP


Documents Properties
General Sharing Security
Location Previous Versions Customize
Files in the Documents folder are stored in the target location below.
You can change where files in this folder are stored to another place on this hard drive, another drive, or another computer on your network.
D:\Users\Technical\Documents
Restore Default
Move...
Find Target...
OK
Cancel
Apply

Vista



Changing Location in Windows Vista and Windows 7.

Right-Click each of the icon and select Properties. Click on "Location" tab to change the location target to D: Drive.

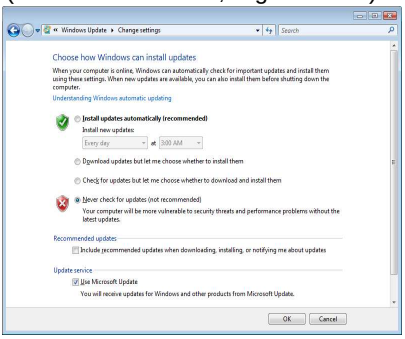
These are the results of changing the store location for Contacts, Documents, Desktop, etc in Windows Vista & 7.

S2.3. Additional Methods to Further Reduce the Buffer Load.

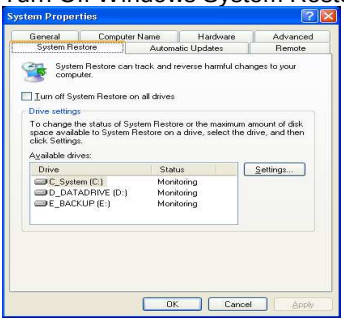
These are the additional tips if you want to further reduce the Buffer Load and also to reduce the work to on Anti-Virus updates. Do the following:

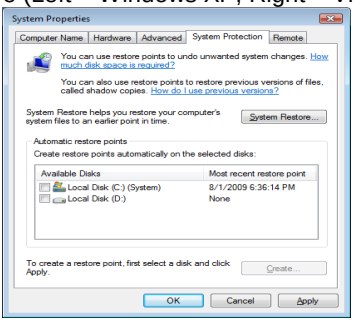
- Install Anti-Virus in D: Drive
- Turn Off Windows Auto-Updates (Left – Windows XP, Right – Vista)

System Properties
General
Computer Name
Hardware
Advanced
System Restore
Automatic Updates
Remote
Help protect your PC
Windows can regularly check for important updates and install them for you. (Turning on Automatic Updates may automatically update Windows Update software first, before any other updates.)
How does Automatic Updates work?
Automatic (recommended)
Automatically download recommended updates for my computer and install them:
Every day
at
3:00 AM
Download updates for me, but let me choose when to install them.
Notify me but don't automatically download or install them.
Turn off Automatic Updates.
Your computer will be more vulnerable unless you install updates regularly.
Install updates from the Windows Update Web site.
Offer updates again that I've previously hidden
OK
Cancel
Apply

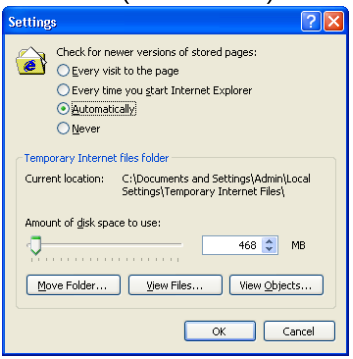

Windows Update
Change settings
Search
Choose how Windows can install updates
When your computer is online, Windows can automatically check for important updates and install them using these settings. When new updates are available, you can also install them before shutting down the computer.
Understanding Windows automatic updating
Install updates automatically (recommended)
Install new updates:
Every day
at
3:00 AM
Download updates but let me choose whether to install them
Check for updates but let me choose whether to download and install them
Never check for updates (not recommended)
Your computer will be more vulnerable to security threats and performance problems without the latest updates.
Recommended updates
Include recommended updates when downloading, installing, or notifying me about updates
Update service
Use Microsoft Update
You will receive updates for Windows and other products from Microsoft Update.
OK
Cancel

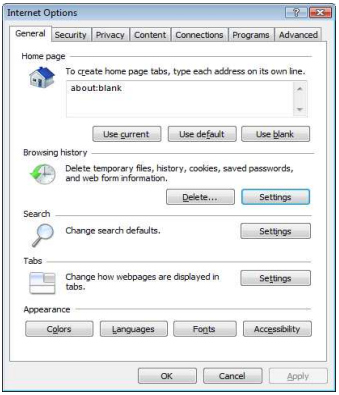
- Turn Off Windows System Restore (Left – Windows XP, Right – Vista)

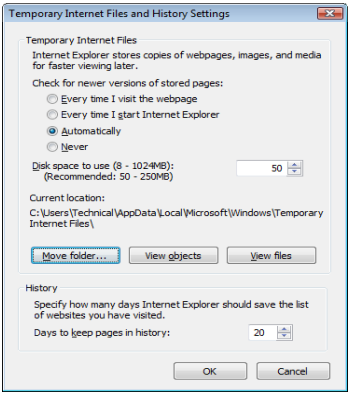


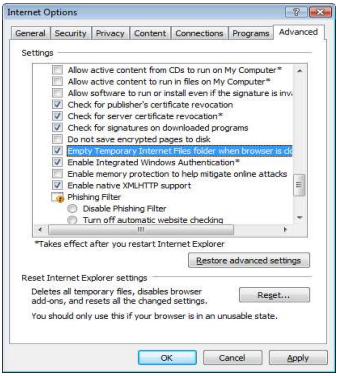

System Properties
Computer Name
Hardware
Advanced
System Protection
Remote
You can use restore points to undo unwanted system changes. How much disk space is required?
You can also use restore points to restore previous versions of files, called shadow copies. How do I use previous versions?
System Restore helps you restore your computer's system files to an earlier point in time.
System Restore...
Automatic restore points
Create restore points automatically on the selected disks:
Available Disks
Most recent restore point
Local Disk (C:) (System) 8/1/2009 6:36:14 PM
Local Disk (D:) None
To create a restore point, first select a disk and click Apply.
Create...
OK
Cancel
Apply

- Move Internet Temporary Folder to D: Drive (Windows XP)






Temporary Internet Files and History Settings
Temporary Internet Files
Internet Explorer stores copies of webpages, images, and media for faster viewing later.
Check for newer versions of stored pages:
Every time I visit the webpage
Every time I start Internet Explorer
Automatically
Never
Disk space to use (8 - 1024MB):
(Recommended: 50 - 250MB)
50
Current location:
C:\Users\Technical\AppData\Local\Microsoft\Windows\Temporary Internet Files\
Move folder...
View objects
View files
History
Specify how many days Internet Explorer should save the list of websites you have visited.
Days to keep pages in history:
20
OK
Cancel


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Allow active content from CDs to run on My Computer*
Allow active content to run in files on My Computer*
Allow software to run or install even if the signature is inv...
Check for publisher's certificate revocation
Check for server certificate revocation*
Check for signatures on downloaded programs
Do not save encrypted pages to disk
Empty Temporary Internet Files folder when browser is cl...
Enable Integrated Windows Authentication*
Enable memory protection to help mitigate online attacks
Enable native XMLHTTP support
Phishing Filter
Disable Phishing Filter
Turn off automatic website checking
*Takes effect after you restart Internet Explorer
Restore advanced settings
Reset Internet Explorer settings
Deletes all temporary files, disables browser add-ons, and resets all the changed settings.
Reset...
You should only use this if your browser is in an unusable state.
OK
Cancel
Apply

It is advisable to ENABLE “Empty Temporary Internet Files folder when browser is closed” when you choose to relocate Temporary Internet Files to another unprotected partition to avoid any harmful data store in temporary folder that may affect your system.

- Turn off Hibernation
- Turn off Windows System Restore

S3. Changing Outlook Express & Windows Mail store location

If the PC is used to store the emails of several users, then for each user, the steps described further below will have to be performed for each of the users.

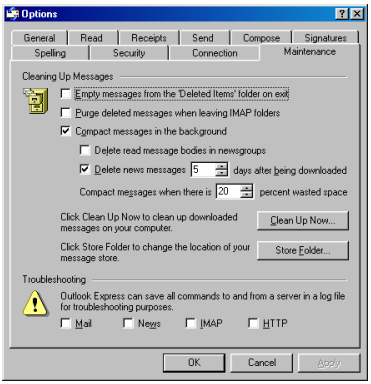
In this example, we have a user named Gary. When his email was initially set up, Outlook Express created an Email Storage Folder for him automatically. Usually, the folder will be named similar to the example shown below:

```
C:\WINDOWS\Application Data\Identities\{A806BEE2-8CF9-11D9-
9B0F-EA31E5E9DA60}\Microsoft\Outlook Express\
```

The objective is to move the Store Location to a folder on drive **D:** so that emails downloaded will be preserved and not lost on reboot of the Juzt-Reboot® protected drive **C:**.

In this example, we will be changing the Store Location to a directory on drive **D:** named as shown below:

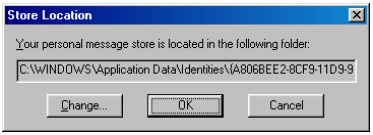
```
D:\Data\Gary\Outlook Express\
```



1) Start up Outlook Express (of the selected user if there is more than one profile).

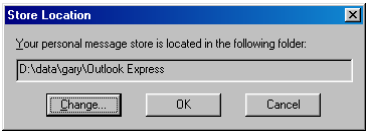
2) Click on "**Tools**", and then on "**Options**". You should then see a screen similar to the one shown beside.

3) Click on the "**Maintenance**" tab. You should see a screen similar to the one shown beside.



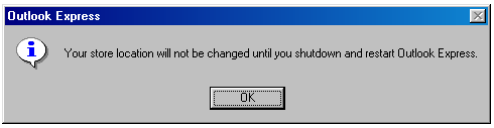
4) Click on the "**Store Folder**" button. You will then see a dialog box similar to the shown beside.

5) Click on the "**Change**" button. At the "**Browse for Folder**" dialog box, you can select the desired directory. In our example, we will be using the above-mentioned directory: **`D:\Data\Gary\Outlook Express\`**. Please ensure that the folder has been created first before you start to browse for the folder.



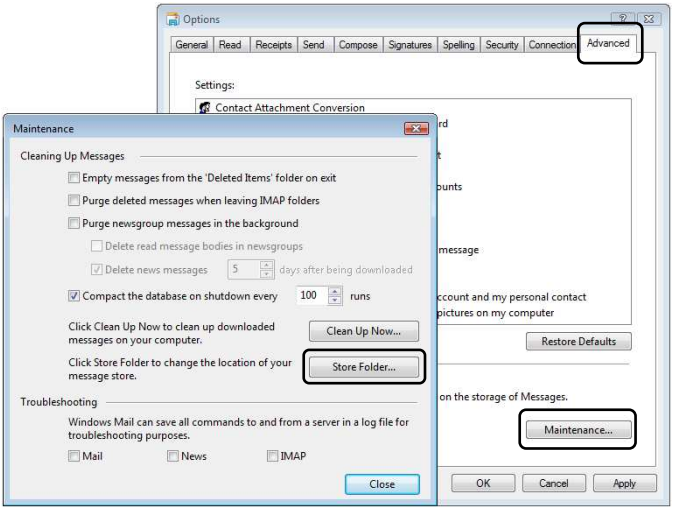
6) Once you have selected the folder and clicked on the "**OK**" button, you will see a dialog box similar to the one shown beside.

7) Click on the "**OK**" button to complete the change. You will then see the following message.



8) As described in the message, you will have to exit from Outlook Express and restart it. On restart of Outlook Express, it will automatically move all the email files for Gary to the specified directory.

For Windows Vista – Windows Mail:
Click Tools → Options → Advanced → Maintenance → Store Folder



S4. Changing Microsoft Outlook store location

For moving Microsoft Outlook Data File to another location, please refer Microsoft Office Website:

Microsoft Outlook 2000, 2002 & Microsoft Office Outlook 2003:
http://office.microsoft.com/en-us/outlook/HA011124801033.aspx

Microsoft Outlook 2007:
http://support.microsoft.com/kb/291636

S5. Multi-OS Installation

To implement multiple Operating Systems under Juzt-Reboot®, you **MUST** use the **Advanced** Installation mode.

Warning:
The use of the **Advanced** installation mode will wipe off **ALL EXISTING DATA** from your hard disk. If you have important data, please ensure that you have made a backup of your data before attempting installation.

The Advanced installation mode will clear out all existing data and prepare a blank disk ready to allocate the OS and data partitions to be set up on the hard disk.

Example:

No	Attrib	Name	Size	File System	Restore Type	Buffer
1.	[T]	[Win 98]	[10000]	[FAT32]	[Every]	[502]
2.	[S]	[Share Data]	[4000]	[FAT32]	[ ]	[ ]
3.	[T]	[Win XP]	[30000]	[NTFS]	[Every]	[1000]
4.	[P]	[Win XP]	[20000]	[NTFS]	[ ]	[ ]
5.	[B]	[Linux]	[15000]	[Linux]	[ ]	[ ]
6.	[P]	[Linux]	[1000]	[Linux/SW]	[ ]	[ ]

The hard disk will be set up with three Operating Systems, together with some data partitions. The Windows 98 and Windows XP OS partitions are configured with the "**T**" attribute (Instant Restore OS partition), while the Linux partition is configured with the "**B**" attribute (Backup Restore OS partition). "**S**" means sharing partitions and is visible to Win 98 & Win XP. No. 4 [**P**] [**Win XP**] having the same name with No. 3 [**T**] [**Win XP**] means this partition is only visible in Win XP and invisible to Win 98.

Note:
Please note that when you set up an OS partition with the "**B**" attribute (Backup Restore OS partition), it will create a backup partition of similar size automatically. The "**Free Space**" report will be reduced by an equivalent amount. This backup partition will not be visible in the partition list.

To perform the installation, first select the "**Advanced**" option at the "**Install Setup**" screen. It will perform the installation and reboot to the "**Multi-Boot**" screen to configure the OS and data partitions. Enter the desired OS and data partitions for your environment.

After saving the configuration and rebooting, you will be presented with the Juzt-Reboot® OS boot menu.

You now have three OS partitions and their data partitions, but all of them are blank and unformatted.

To install the Operating Systems in each respective OS partition, you will need the Install CD for the OS and ensure that the CD-ROM has been configured as a first boot device before the Hard Disk.

For the first OS, place the respective Installation CD in the CD-ROM drive, select the OS from the boot menu and press the ENTER key to start the boot process. Since the CD-ROM is the first boot device (after the Juzt-Reboot® card), it will start the OS installation process. Each time the installation process reboots the PC, at the Juzt-Reboot® OS boot menu, select the correct OS and boot to it to continue the installation process.

You will need to perform this step for each of the Operating Systems you plan to install on the system one by one.

S6. Linux Installation Procedure

Note:

a) Other Operating Systems such as Linux and other versions of Unix are supported in the **Backup Recovery** mode only.

b) Operating Systems using Backup Recovery mode must be set up in **Advanced** installation mode. This means that all existing information in the hard disk is deleted before proceeding.

c) OS Partitions created using the "**B**" (Backup Restoration) attribute will automatically create another partition of similar size. This backup partition will not be displayed.

The example below illustrates the partitioning in the Multi-Boot screen for a multi-boot environment consisting of a Windows XP Operating System and data partition as well as a Red Hat Linux operating system.

```
No.Attrib    Name       Size   File System  Restore Type Buffer
1.  [T]  [Win XP    ][ 30000]  [NTFS    ]   [Every  ]   [1000]
2.  [P]  [Win XP    ][ 20000]  [FAT32   ]   [       ]   [    ]
3.  [B]  [RH Linux  ][  6000]  [Linux   ]   [       ]   [    ]
4.  [P]  [RH Linux  ][  1200]  [Linux/SW]   [       ]   [    ]
[REMARK]
T => Instant Restore Boot Partition
B => Backup Restore Boot Partition
C => No Restore Boot Partition
S => Shared Data Partition
P => Private Data Partition (Give the same name as Boot Partition)
```

After partitioning in the Multi-Boot screen, you can now start to install Linux. Ensure that the CD-ROM has been configured as a boot device ahead of the Hard Disk to allow booting from the Red Hat Linux installation CD.

Please download other the Linux Installation Guides from our website.